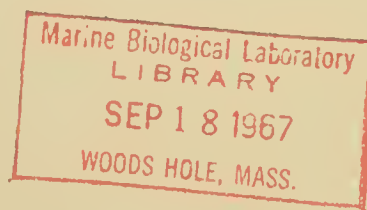


The Trade Wind Zone Oceanography Pilot Study Part IV: Townsend Cromwell Cruises 11, 12, and 13 December 1964 to February 1965

By Robert L. Charnell, David W. K. Au,
and Gunter R. Seckel



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FISH AND WILDLIFE SERVICE
BUREAU OF COMMERCIAL FISHERIES

UNITED STATES DEPARTMENT OF THE INTERIOR

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The Trade Wind Zone Oceanography Pilot Study

Part IV: Townsend Cromwell Cruises 11, 12, and 13

December 1964 to February 1965

By

Robert L. Charnell, David W. K. Au
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ABSTRACT

A standard grid of oceanographic stations in an area bounded by lat. 10° and 26° N., and long. 148° and 157° W., was occupied at monthly intervals between February 1964 and June 1965. For the fourth set of three cruises, Townsend Cromwell cruises 11, 12, and 13, December 1964 to February 1965, oceanographic station data are tabulated, BT data are presented in vertical sections, and the distribution of surface temperature, surface salinity, and surface dynamic height relative to 1,200 m. are shown in charts for each cruise. Methods and procedures as well as the limitations of the data are discussed.

INTRODUCTION

This is the fourth of a series of reports presenting physical oceanographic data of the Trade Wind Zone Oceanography Pilot Study conducted by the Bureau of Commercial Fisheries Biological Laboratory, Honolulu. The data were obtained during a series of 16 monthly cruises between February 1964 and June 1965 over a set station pattern in an area near the Hawaiian Islands bounded approximately by lat. 10° and 26° N. and long. 148° and 157° W.

The complete set of observations represents a three-dimensional time-sequence distribution of properties (temperature, salinity,...) in the trade wind zone of the central North Pacific. It is a pilot study of an investigation in which seasonal changes in the distribution of properties are to be explained in terms of 1) seasonal

changes in the processes of net heat and water exchange across the sea surface, and 2) the effects of seasonal changes in wind stress and water motion. The Trade Wind Zone Oceanography Program was planned by Gunter R. Seckel and is carried out under his direction by HL (Bureau of Commercial Fisheries Biological Laboratory, Honolulu).

This report contains the BT (bathythermograph) and oceanographic station data for the 11th, 12th, and 13th cruises in the series. Figure 1 shows the cruise track for the three cruises and gives the position of the Nansen bottle oceanographic casts and the BT casts.

All cruises were made by the R/V Townsend Cromwell, commanded by Captain Robert E. K. D. Lee, with officers Jan Liefting and Pete Andrich. The scientific parties were composed of the following:

Townsend Cromwell, cruise 11:
December 1 to 20, 1964

Thomas S. Hida - HL - Field Party Chief
Joseph R. Harada - HL
Henry M. Kishinami - HL
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
Charles J. Rollet - HL
Roger B. Clapp - Smithsonian Institution

Note.--Robert L. Charnell, Oceanographer, presently with Hazelton Nuclear Science Corp., Palo Alto, California 94303, formerly with Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii; David W. K. Au, Physical Science Technician and Gunter R. Seckel, Oceanographer, Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812.

Warren King - Smithsonian Institution
Townsend Cromwell, cruise 12:

January 5 to 24, 1965

Robert L. Charnell - HL - Field Party Chief
Henry M. Kishinami - HL
Robert M. Moncrief - HL
Frank A. Moriguchi - HL
Alan M. Osato - HL
Patrick Gould - Smithsonian Institution
Warren King - Smithsonian Institution

Townsend Cromwell, cruise 13:

February 2 to 4 and 8 to 27, 1965

David W. K. Au - HL - Field Party Chief
Jerome S. W. Marr - HL
Howard N. Morinaga - HL
Alan M. Osato - HL
Charles J. Rollet - HL
Roger B. Clapp - Smithsonian Institution
Warren King - Smithsonian Institution

OBSERVATIONS^{1/}

In addition to the regular Nansen and BT casts shown in figure 1, BT casts were made at 18.5-km. (10-nautical-mile) intervals for studies of variability between stations 2 and 4, 17 and 19, and 23 and 25. Further bathythermograms were obtained during cruise 12 in conjunction with tests of the XBT (Sippican expendable bathythermograph)^{2/}, carried out by Oscar E. Sette (BCF Biological Laboratory, Stanford, Calif. 94305).

Beginning with cruise 12, surface temperatures and salinity samples were taken from an inside pump system which has an intake at a depth of 8 feet.

A Hytech Model 9006 Salinity-Temperature-Depth Measuring System was tested and used during cruise 13 to collect additional data at stations 7A, 25, and 42.

To supplement the physical oceanographic data presented in this report, additional information of the following types was obtained.

Biological

A 1/2-hour surface plankton tow was taken daily at 2000 hours with a 1-m. net. Flyingfish

which stranded themselves on deck were collected daily. Squid were caught and preserved during cruises 11 and 12. Regular observations of fish schools, sea mammals, and birds were supplemented by more detailed bird counts by observers from the Smithsonian Institution.

Meteorological

Rain measurements as well as standard weather observations were taken four times daily. Radiation from sun and sky was measured and recorded daily with an Eppley pyranometer. These observations were supplemented by daily color photographs of clouds.

Current

Drift bottles or plastic-enclosed drift cards, described by Barkley, Ito, and Brown (1964), were released at each BT cast. The drift cards were released in groups of 10 at each cast during cruise 11. The drift bottles were released in groups of eight at each cast during cruises 12 and 13.

Current-measuring techniques were tested on cruises 11 and 12 by use of a Roberts current meter. On cruise 13 measurements were obtained from the Roberts current meter in the surface layers and an Ekman current meter at 1,200 m.

PREPARATION OF DATA

Standard oceanographic procedures were employed in the preparation of the data for this report. Salinity determinations were made on the University of Washington salinity bridge (Paquette, 1958). Duplicate determinations were made with an induction salinometer. When values differed more than 0.02 ‰, the salinity was redetermined on the U.W. salinity bridge, and the mean of the salinity bridge determinations was reported. Oxygen concentrations were determined by the modified Winkler method (Thompson and Robinson, 1939). Inorganic PO₄-P was determined by the procedure of Robinson and Thompson (1948) as modified at the University of Washington. All thermometers had been calibrated at HL since April 1962. The reported temperatures are estimated to be accurate to $\pm 0.02^{\circ}\text{C}$. Application of corrections to protected and unprotected thermometer readings and computations of thermometric depths and L-Z values were per-

^{1/}All data not presented in this report are on file at the Bureau of Commercial Fisheries Biological Laboratory, Honolulu, Hawaii 96812

^{2/}Trade names referred to in this publication do not imply endorsement of commercial products.

formed with an IBM 7040 digital computer^{2/} at the University of Hawaii Computing Center with a program written at HL. Depths were determined by the use of values from the L-Z curve for the actual depth. This procedure gave depth estimated to be within ± 10 m. down to 1,000 m. and within ± 1 percent below 1,000 m.

Sigma-t, specific volume anomaly, and the dynamic height were computed on the IBM 7040 computer by the program prepared at HL and based on equations given by LaFond (1951). The computer also was used to interpolate all properties at standard depths by means of a subroutine furnished by the University of Washington Oceanography Department and based on the interpolation method outlined by Rattray (1962).

In the region of study, a sharp thermocline generally separates a surface mixed layer from the subsurface waters. Only infrequently do Nansen casts adequately define this configuration, with the result that the interpolation program provides inaccurate values for temperature. BT data were used to correct the temperature-depth curve in the thermocline and the isothermal layer. When necessary, a value of temperature was chosen from the corrected curve at standard depths in the mixed layer and upper thermocline and, with the corresponding salinity value from the T-S curve, was used with the Nansen cast data in the interpolation program. The resulting interpolated values were much nearer the actual oceanographic situation as implied by the BT trace.

To estimate the validity of values for the surface distribution charts, the surface bucket values of temperature and salinity were compared, for each cruise, with values from the surface Nansen bottles. For temperature, variation was fairly random so that the mean of the difference between the two values was well within the accuracy of the surface bucket thermometer. The root mean square value computed from the above differences was less than 0.2°C . The bucket salinity values were usually larger than the Nansen bottle values, most probably owing to salt contamination at the time of sampling. The mean of the differences was about $0.003\text{ }^{\circ}/\text{oo}$ and the root mean square value was within $0.07\text{ }^{\circ}/\text{oo}$ for each cruise.

PRESENTATION OF DATA

For each of the three cruises the original as well as derived data and section plots for the

properties have been included.

Tables 1, 2, and 3 contain the oceanographic station data for cruises 11, 12, and 13, respectively. In addition to the position, date, and time at each station, weather and sea conditions in standard notation have been included in the heading of each station. The first five columns of each station listing show the observed depth, temperature, salinity, oxygen, and phosphate, respectively; the next two columns contain calculated sigma-t and specific volume anomaly for the observed data. The next three columns present the interpolated values of temperature and salinity at standard depths and the last three columns contain sigma-t and the specific volume anomaly calculated from the interpolated data and the anomaly of dynamic height summed from the surface. The error terms, defined by the Rattray interpolation technique, that exceeded 0.10 for temperature and 0.05 for salinity have been noted below the tabulation for each station. Interpolated and extrapolated values as well as irregularities in the original data are noted in these tables.

Temperature distribution sections along long. 148°W. , 151°W. , 154°W. , and 157°W. based on the 270-m. BT's are included; so are the shorter zonal sections between stations 7 and 7A, 25 and 26, and 37 and 40. In addition, surface temperature and salinities are presented with each section. All the sections were plotted automatically by the model 566 Calcomp plotter with a program designed at HL. These seven BT sections are shown in figures 2 through 7 for cruise 11, figures 8 through 13 for cruise 12, and figures 14 through 19 for cruise 13.

The surface temperature distributions, based on bucket or intake temperature at each BT cast, are shown in figures 20, 21, and 22 for cruises 11, 12, and 13, respectively.

The surface salinity distributions, based on bucket or intake salinity samples at each BT cast, are shown in figures 23, 24, and 25 for cruises 11, 12, and 13, respectively.

The dynamic topography, relative to 1,200 m. for cruises 11, 12, and 13, is shown in figures 26, 27, and 28, respectively.

ACKNOWLEDGMENTS

The data for these cruises were processed by HL personnel under the direction of Mary Lynne Godfrey. Betty Ann L. Keala did the computer programing.

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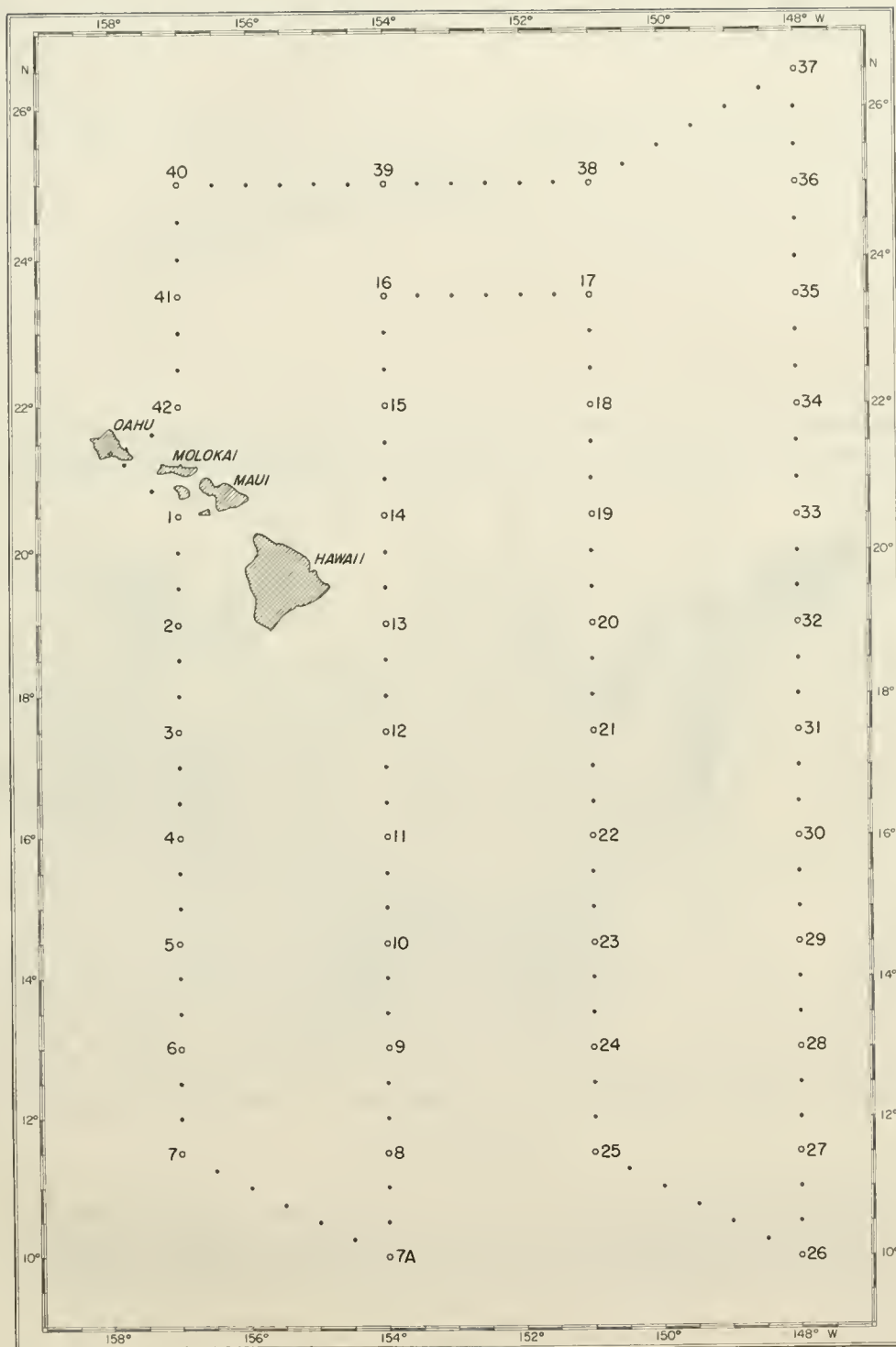


Figure 1.--Track chart for Townsend Cromwell cruises 11, 12, and 13. The large, numbered dots indicate the locations at which both hydrographic and BT (bathythermograph) casts were made; the smaller dots indicate locations at which only BT casts were made.

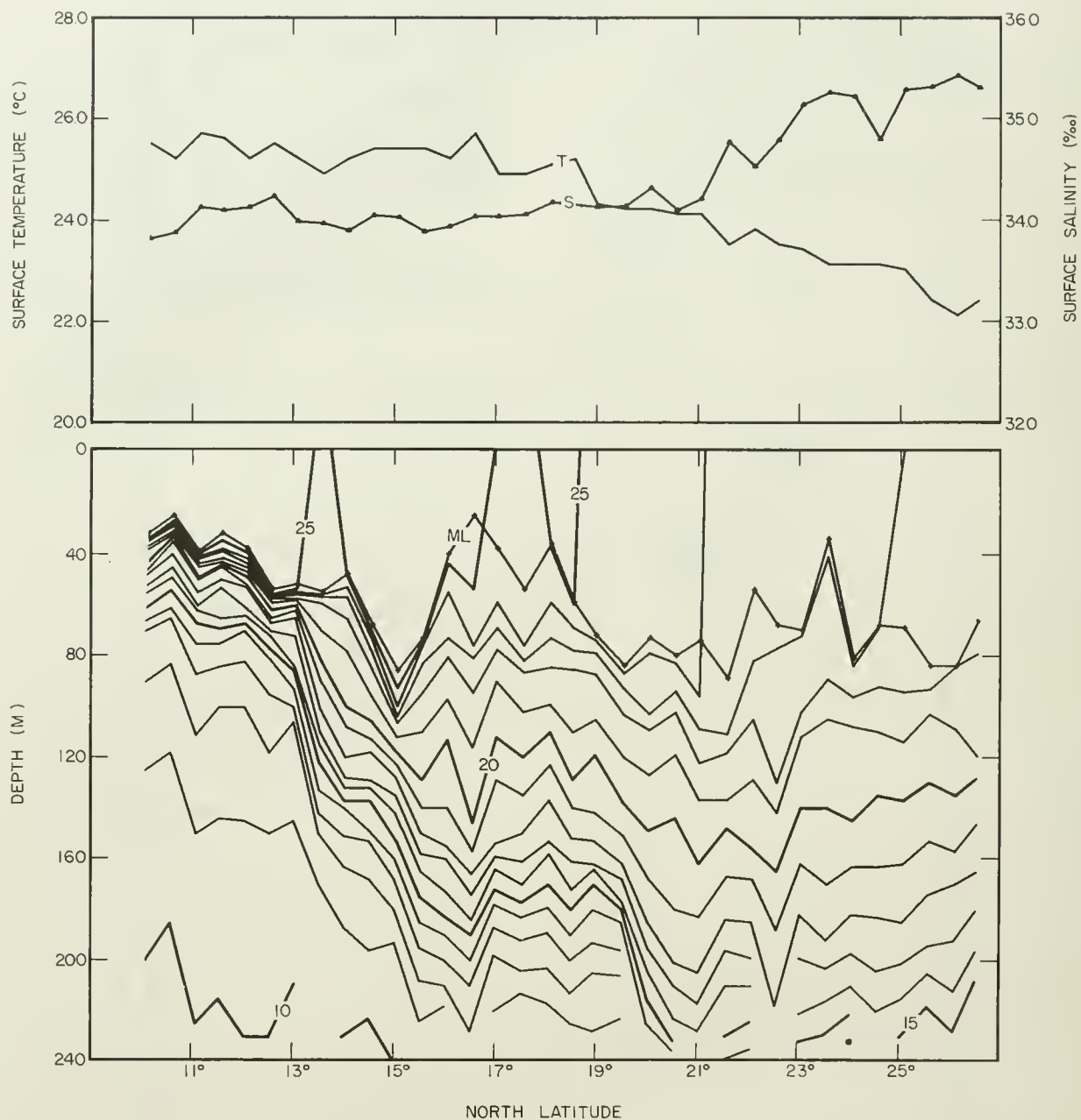


Figure 2.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

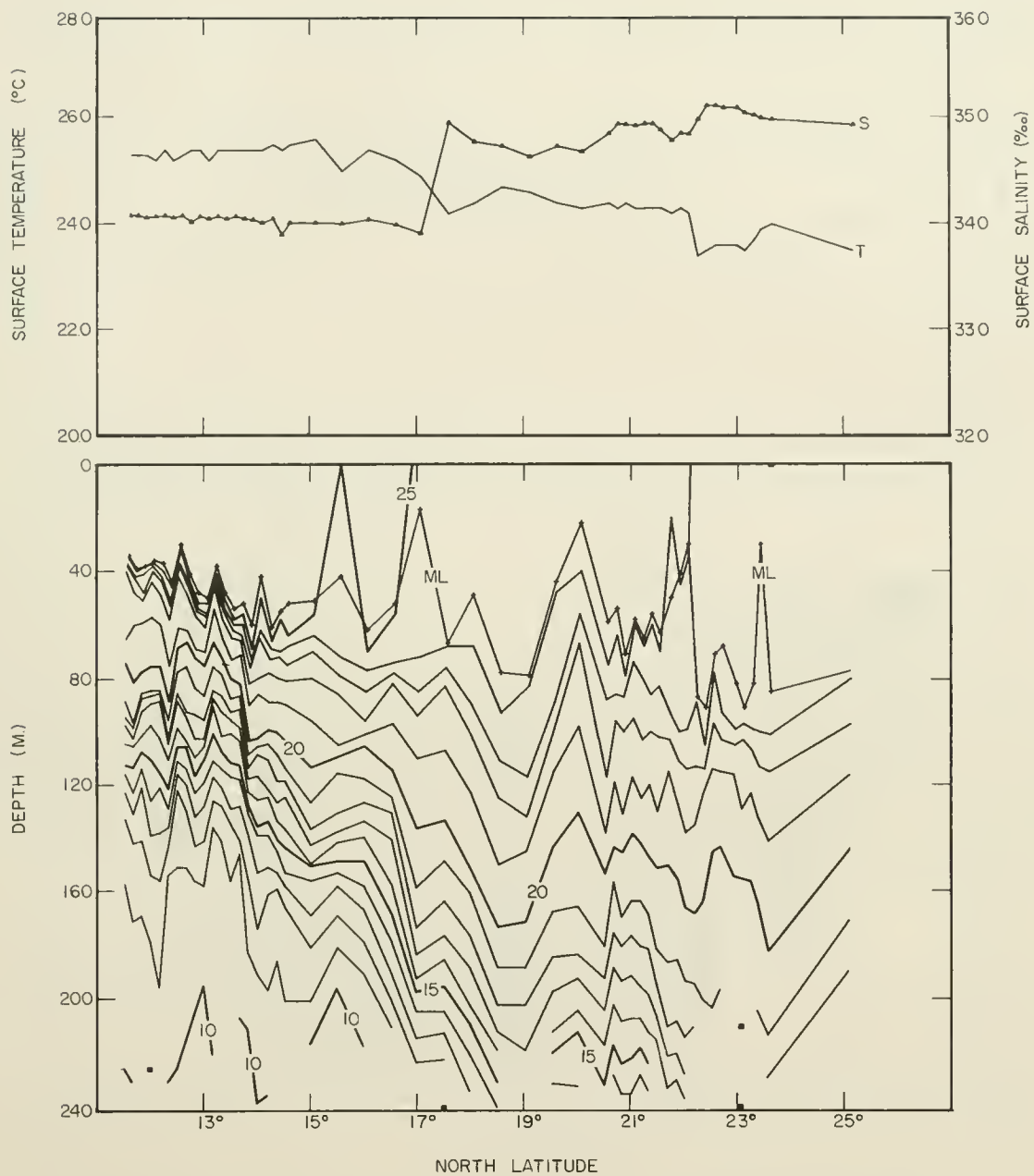


Figure 3.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

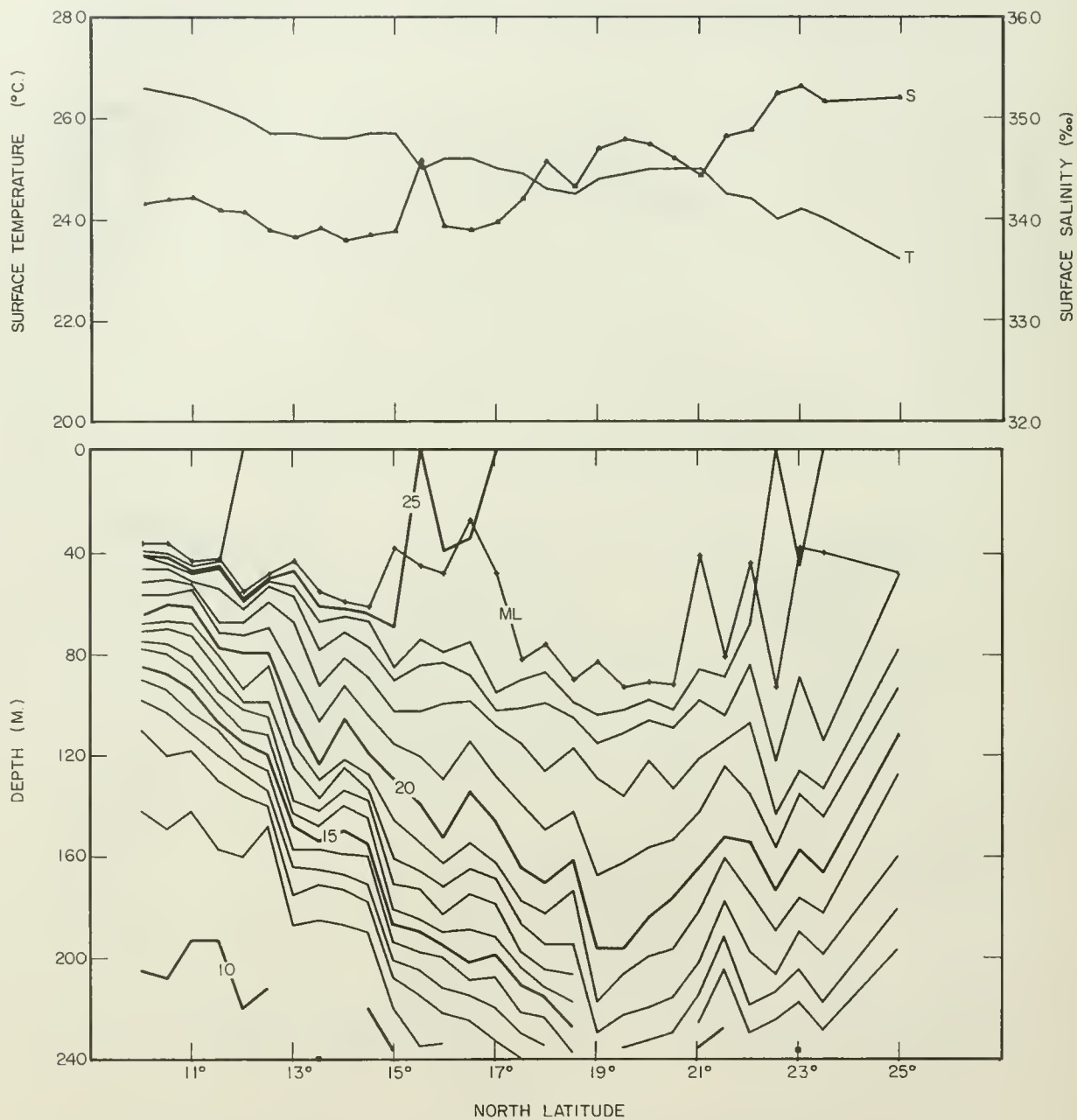


Figure 4.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

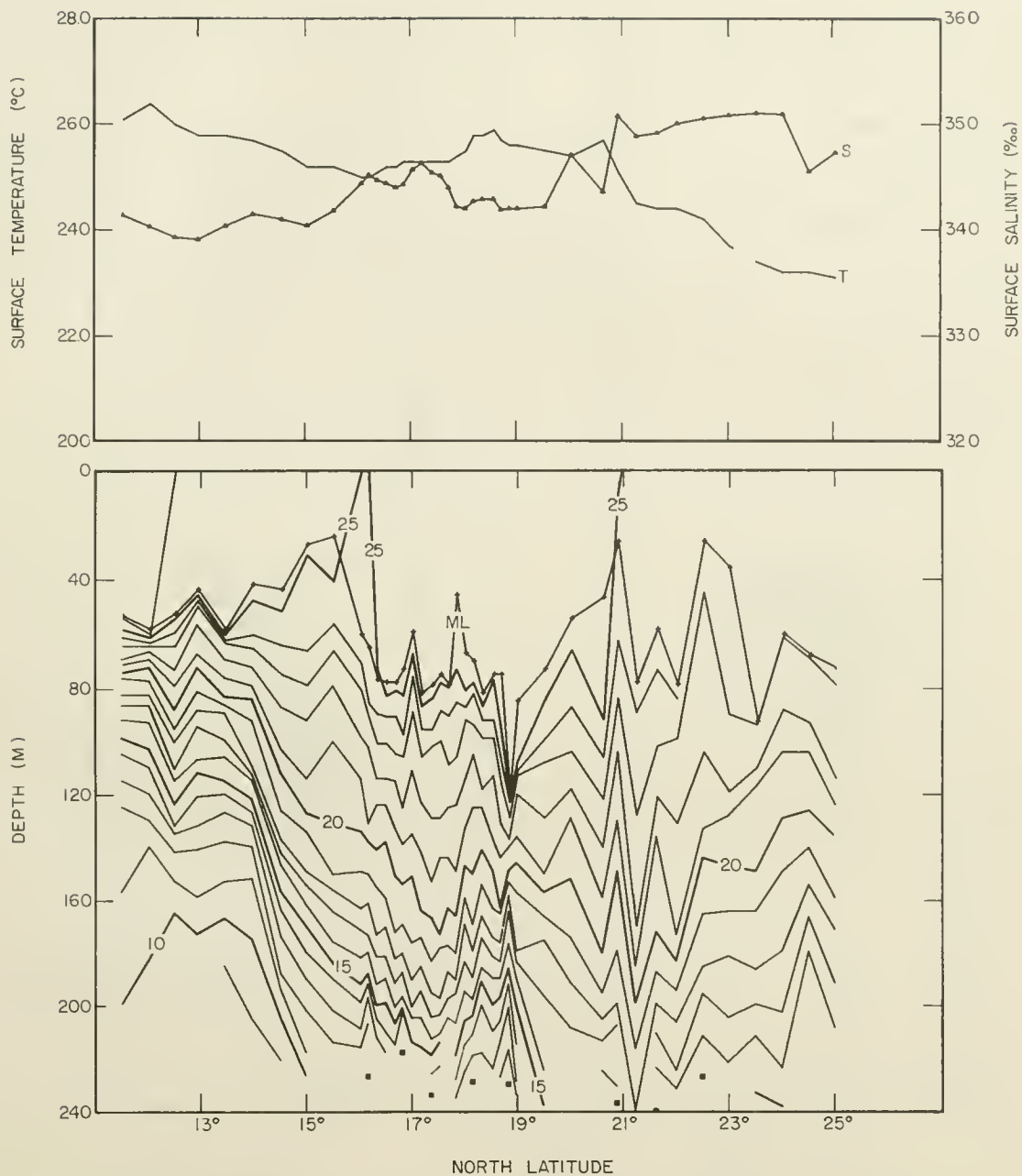


Figure 5.--Surface temperatures ($^{\circ}\text{C}$.) and salinities (‰) (upper panel) and BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 11 along long. 157°W . The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

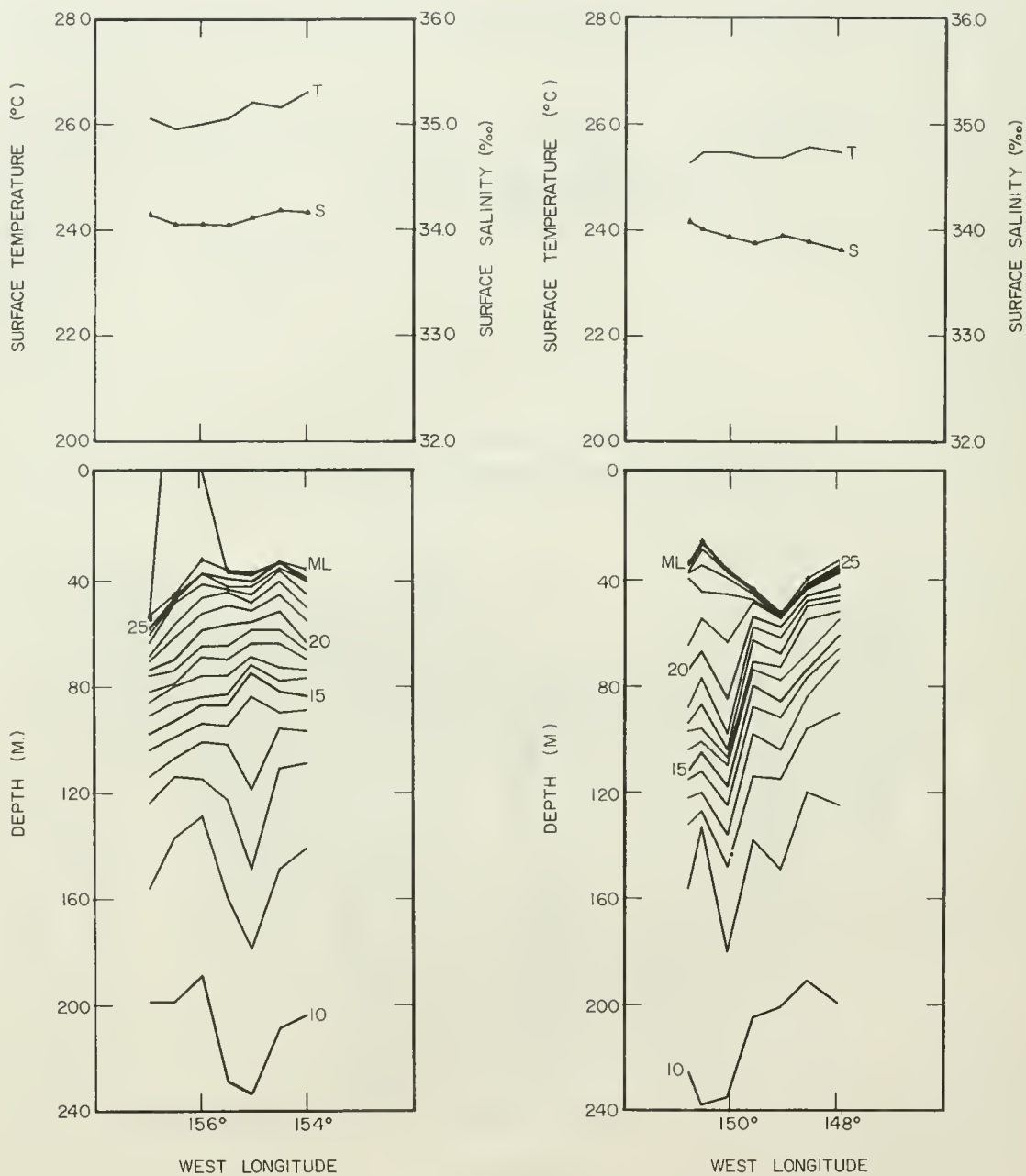


Figure 6.--Surface temperatures ($^{\circ}\text{C}.$) and salinities (‰) (upper panel) and zonal BT temperature ($^{\circ}\text{C}.$) section (lower panel) for Townsend Cromwell cruise 11 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

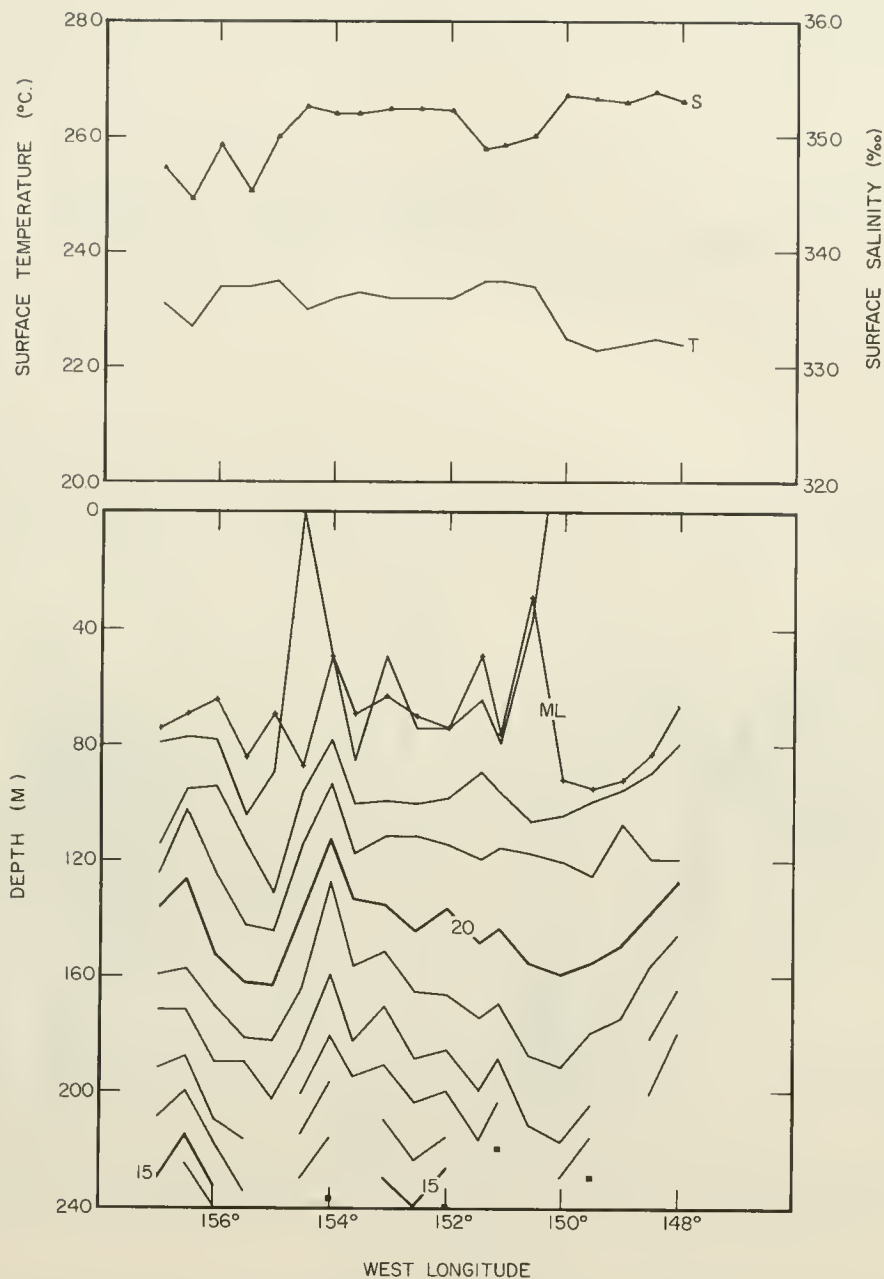


Figure 7.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 11 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

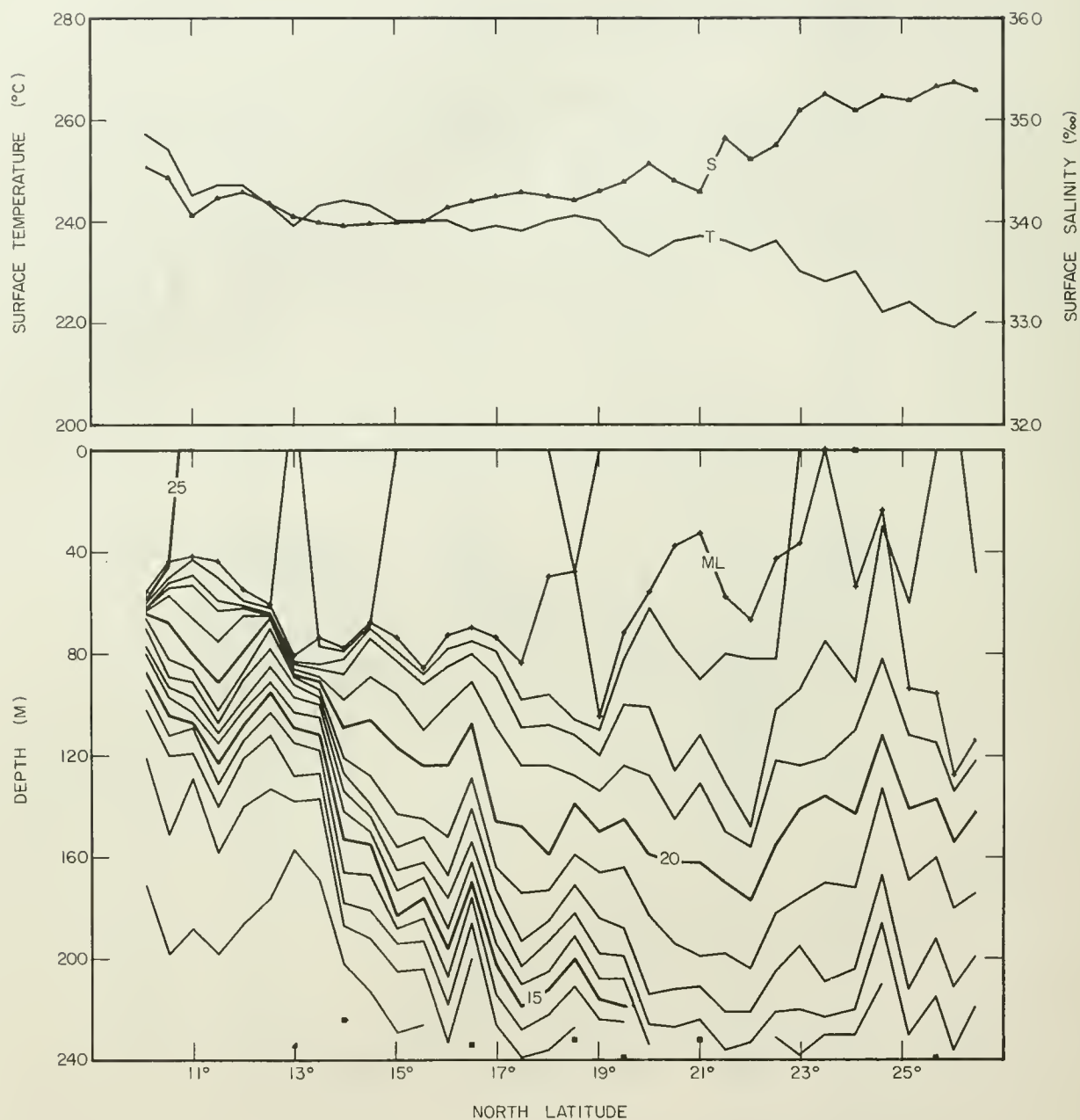


Figure 8.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

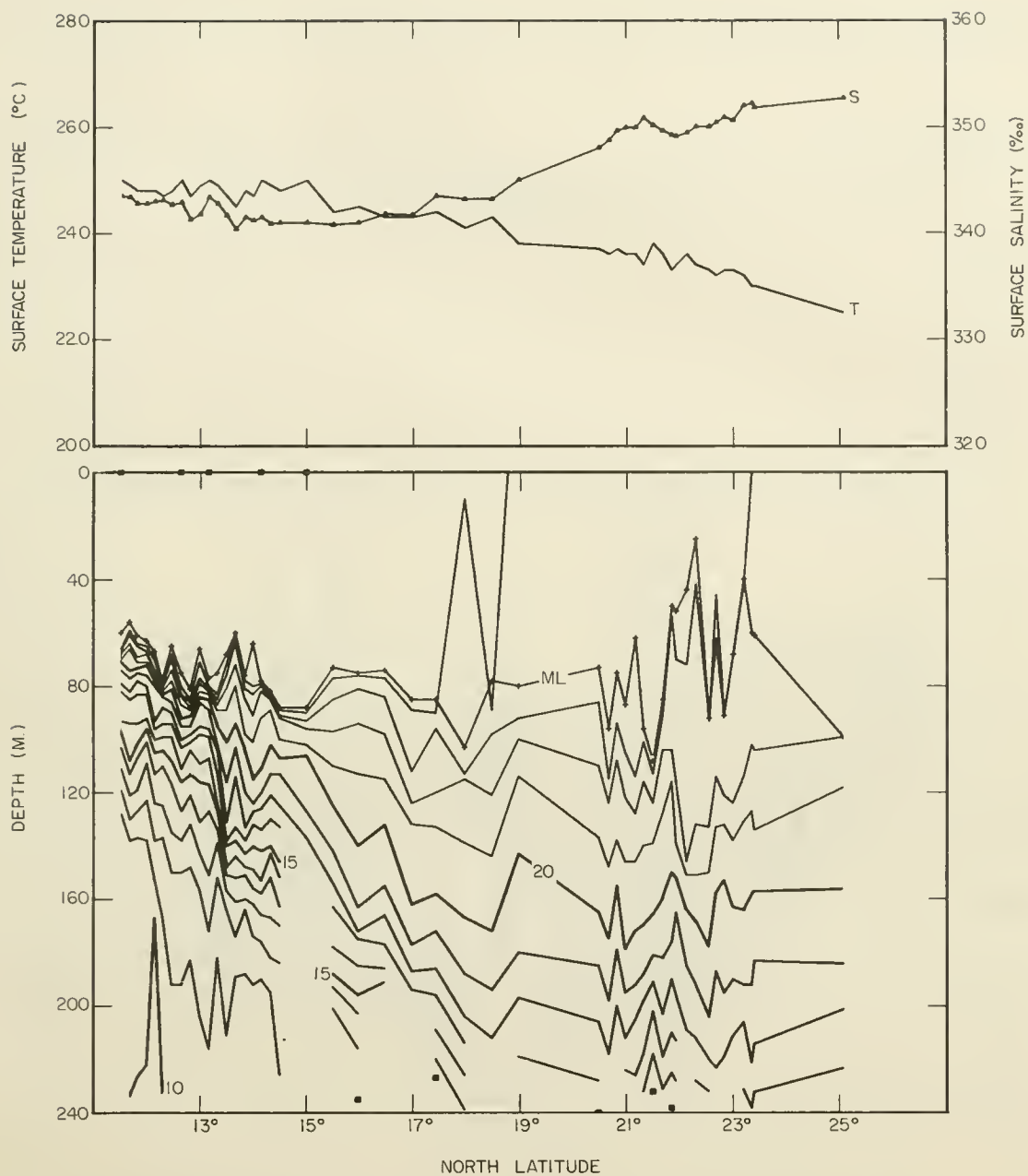


Figure 9.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

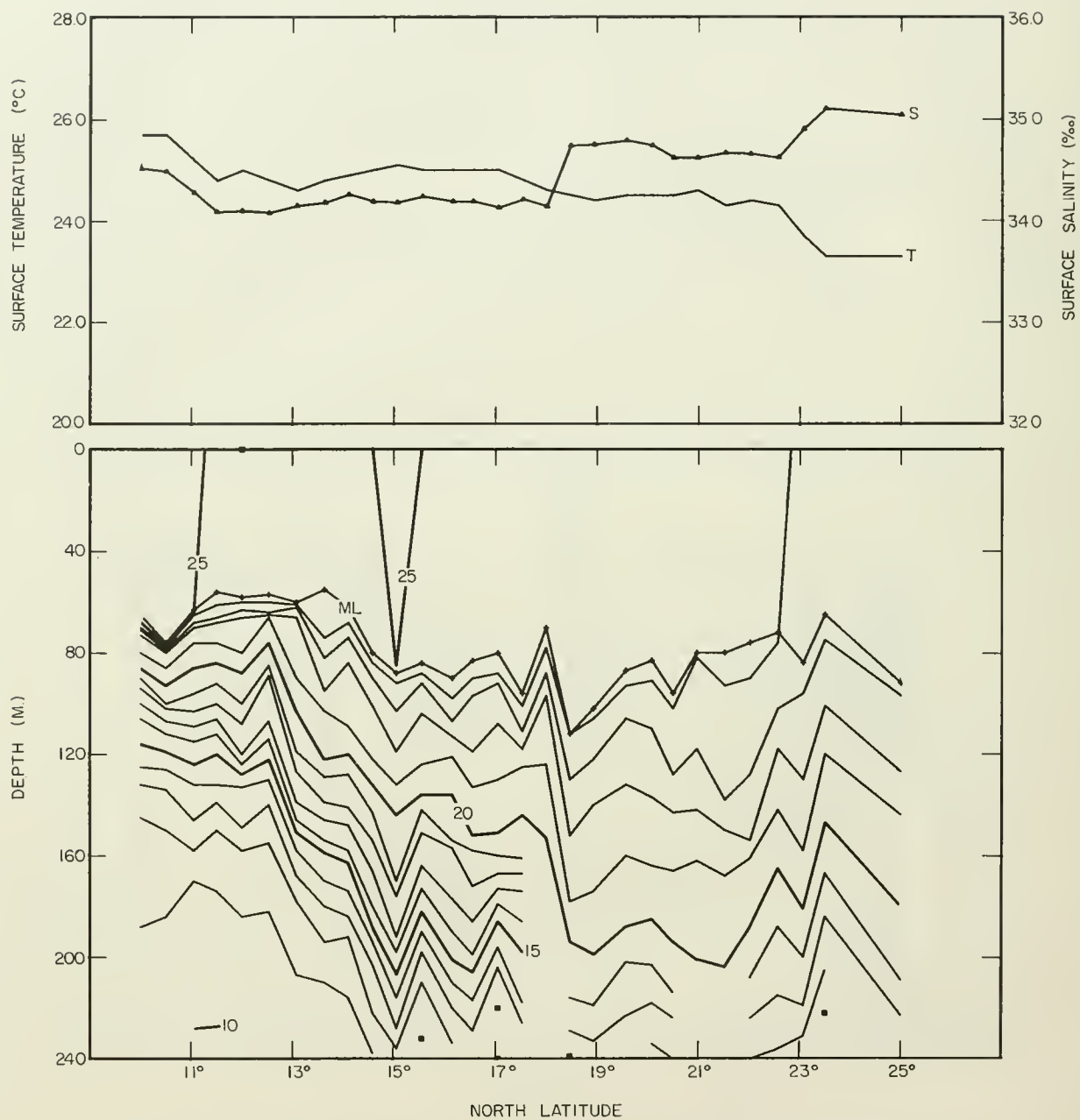


Figure 10.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

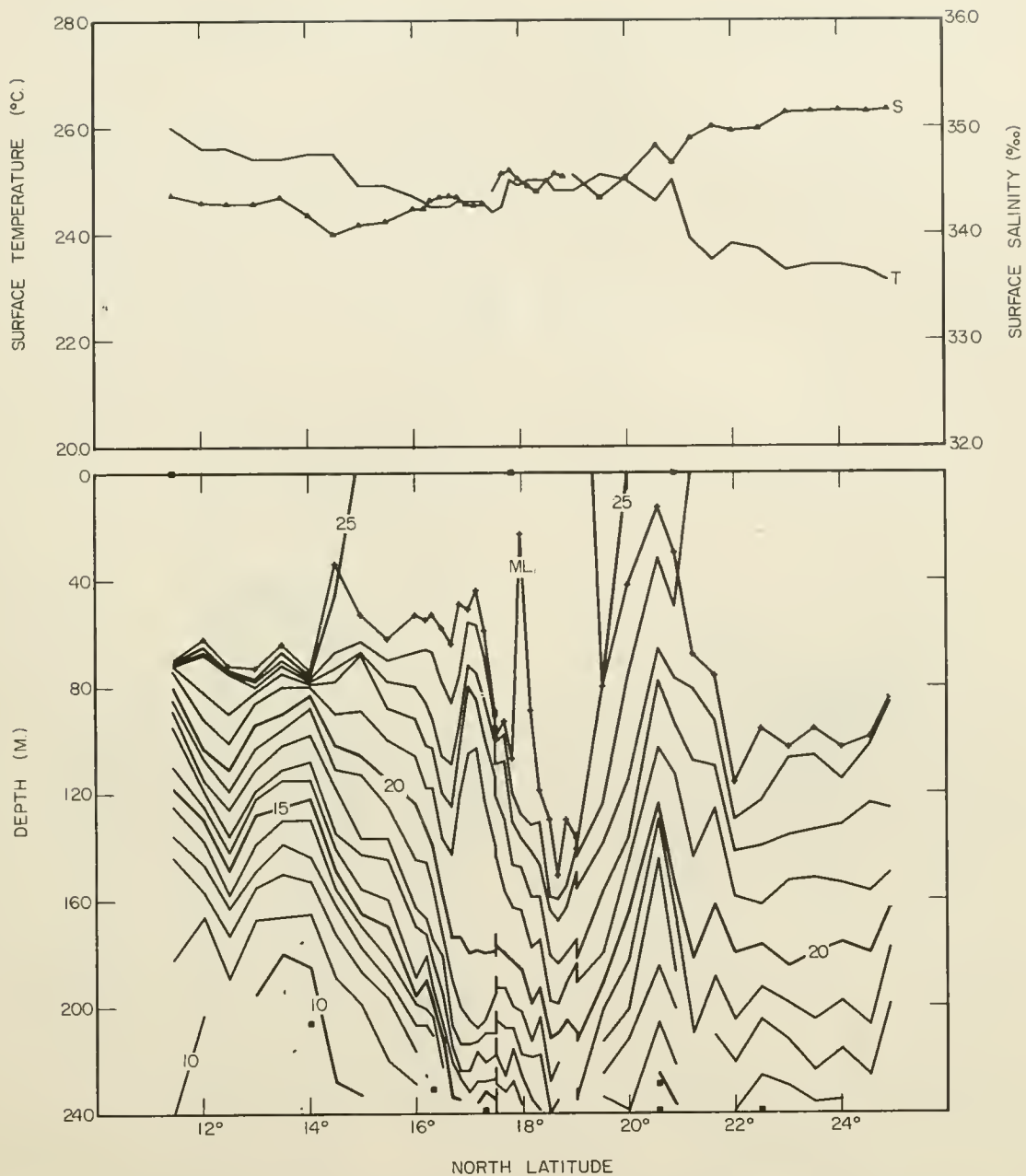


Figure 11.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

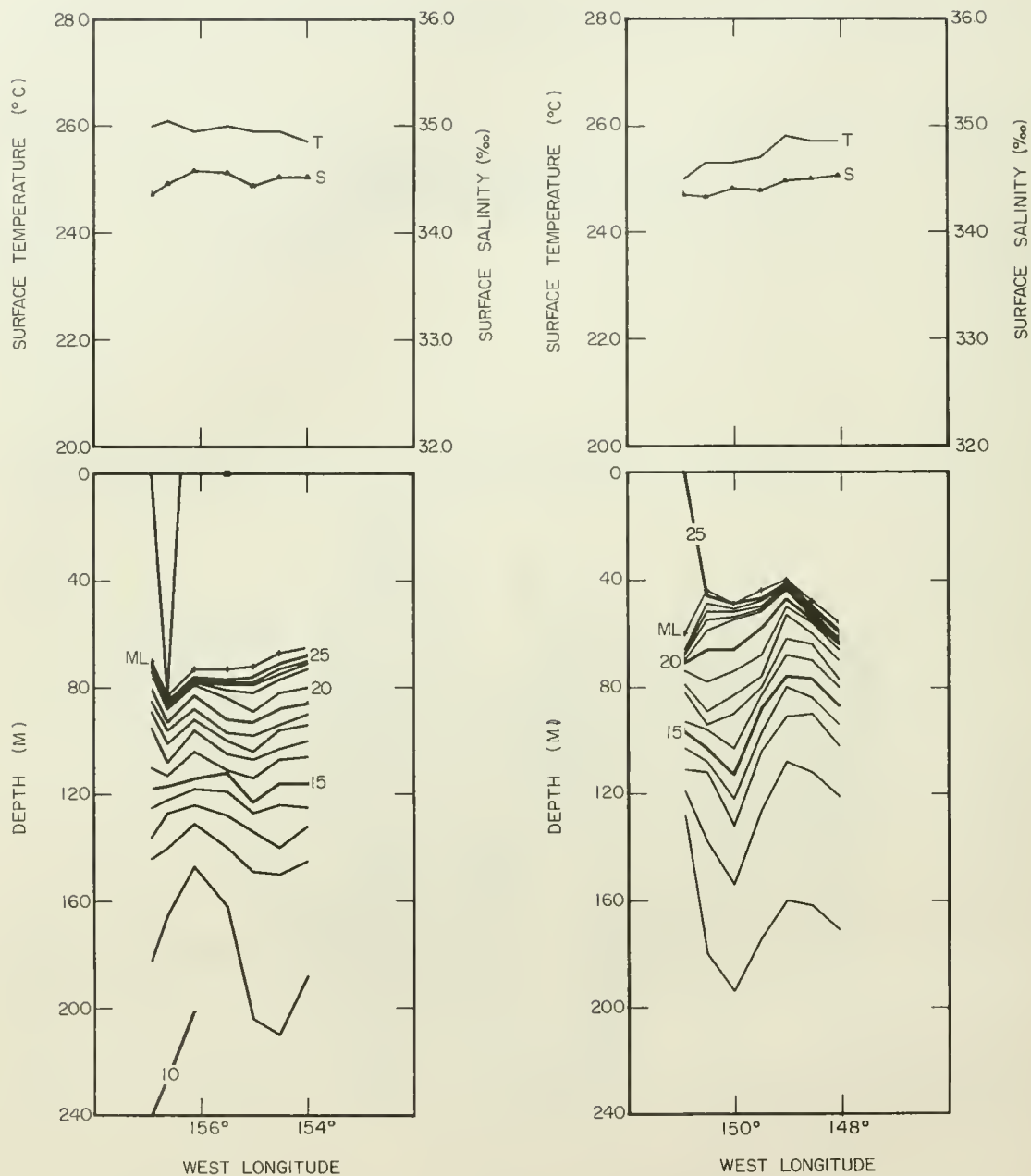


Figure 12.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

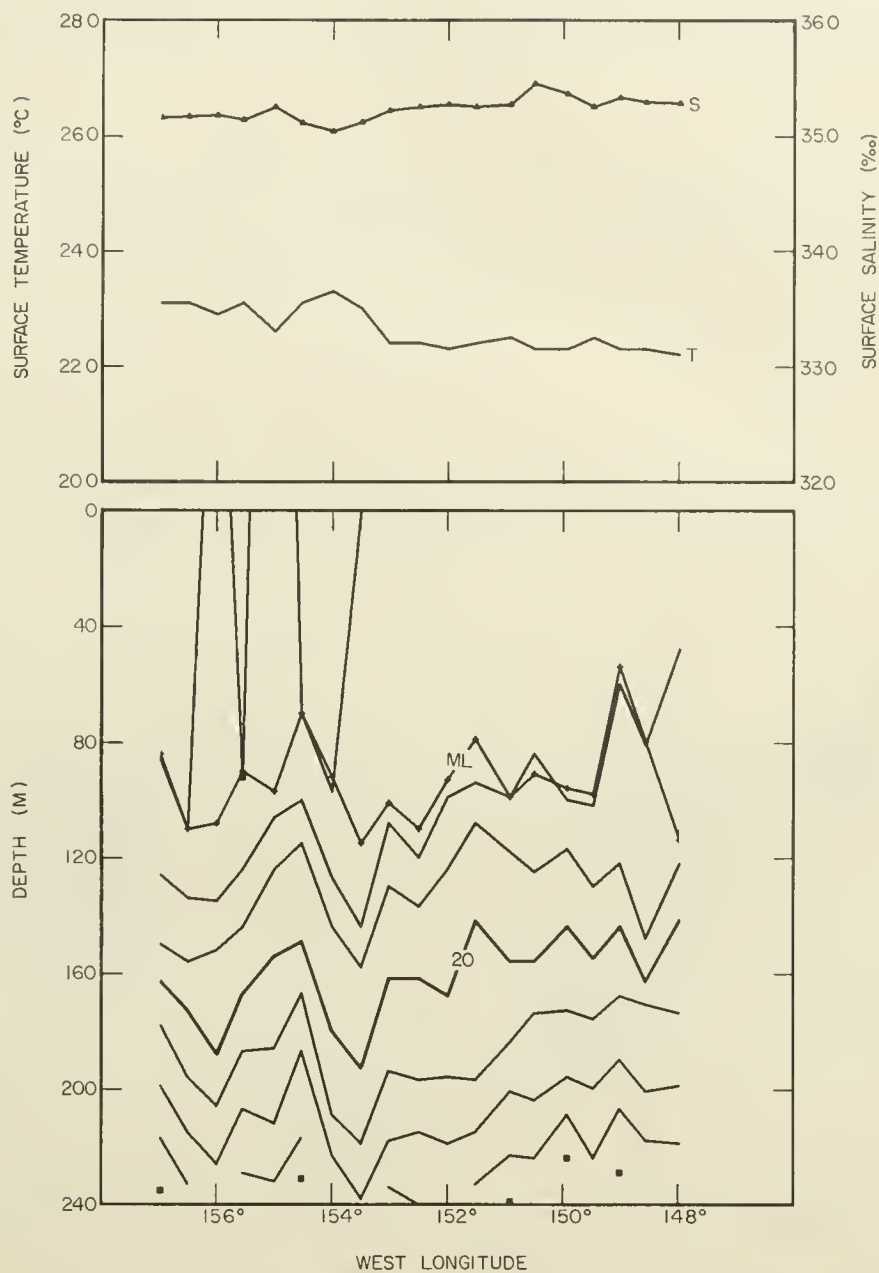


Figure 13.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 12 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

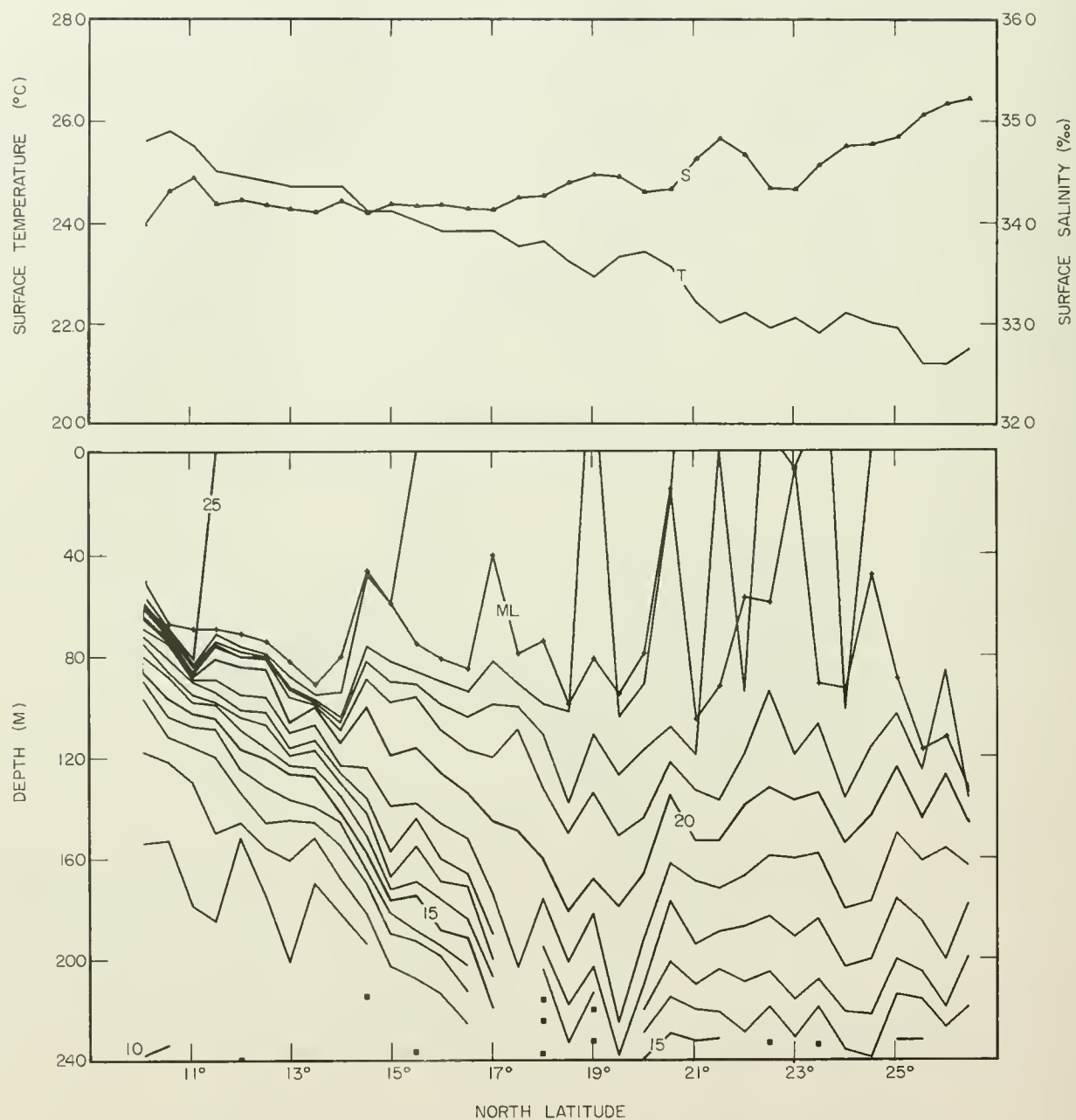


Figure 14.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 148° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

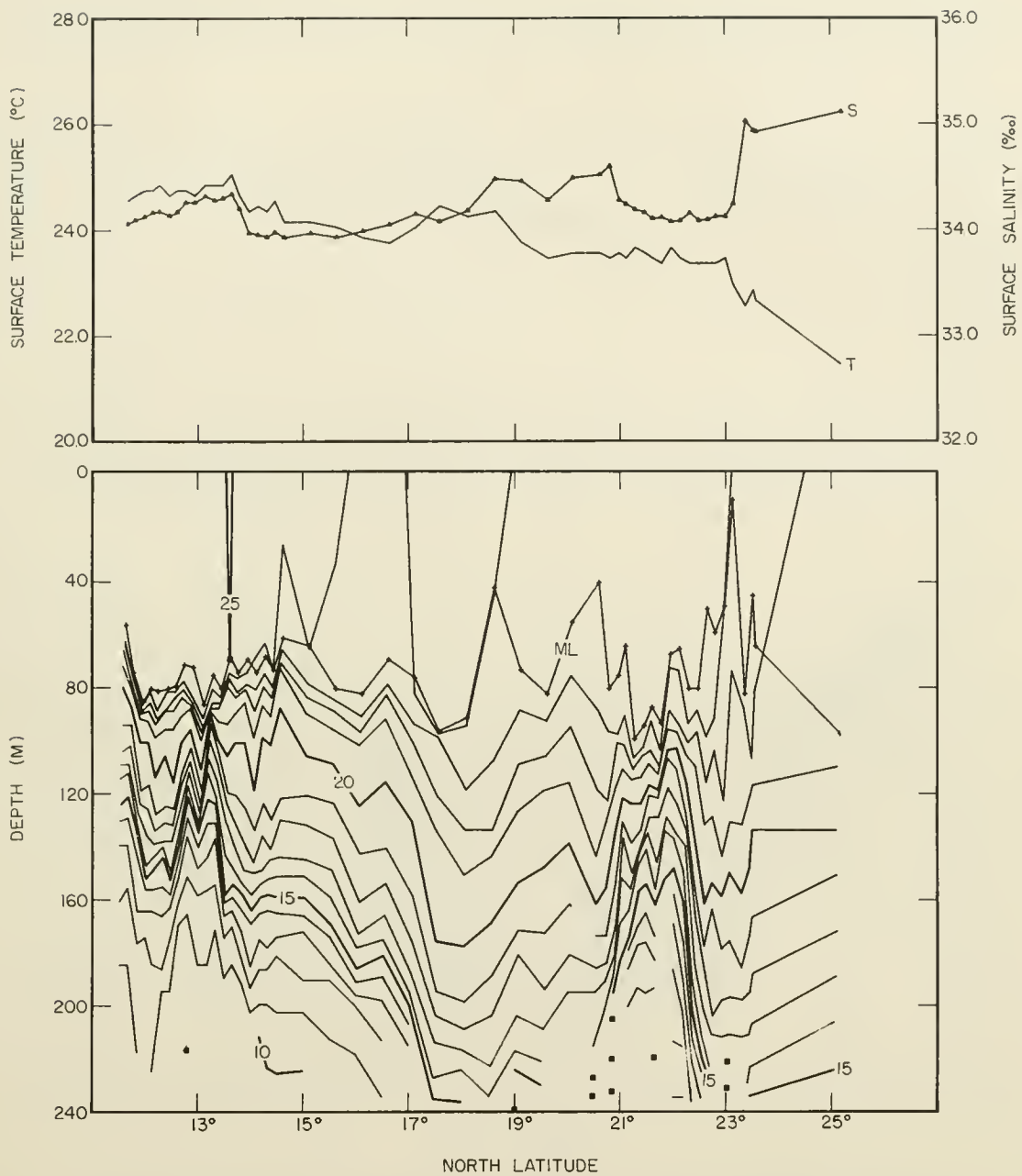


Figure 15.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Crowell cruise 13 along long. 151° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

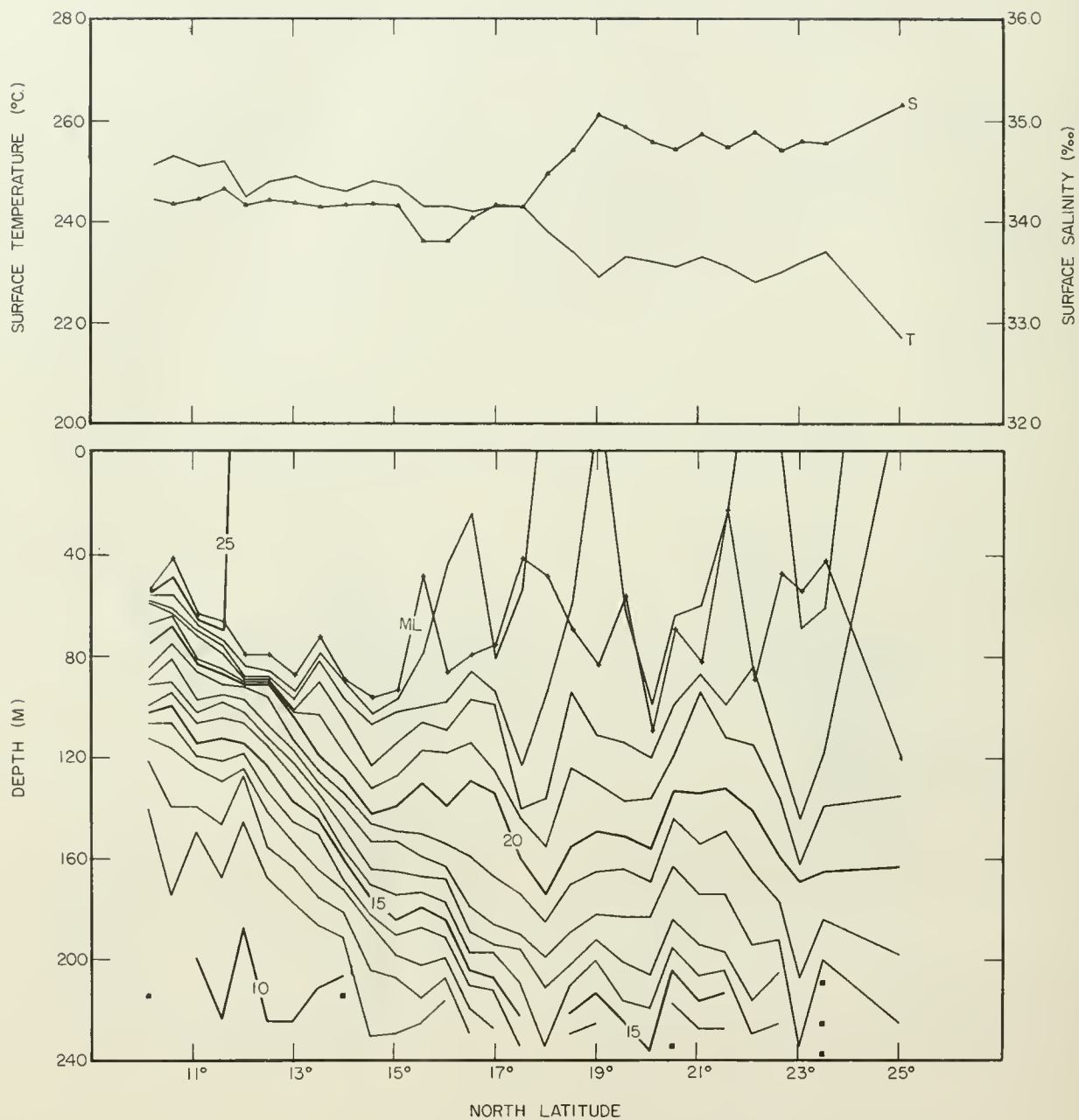


Figure 16.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 154° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

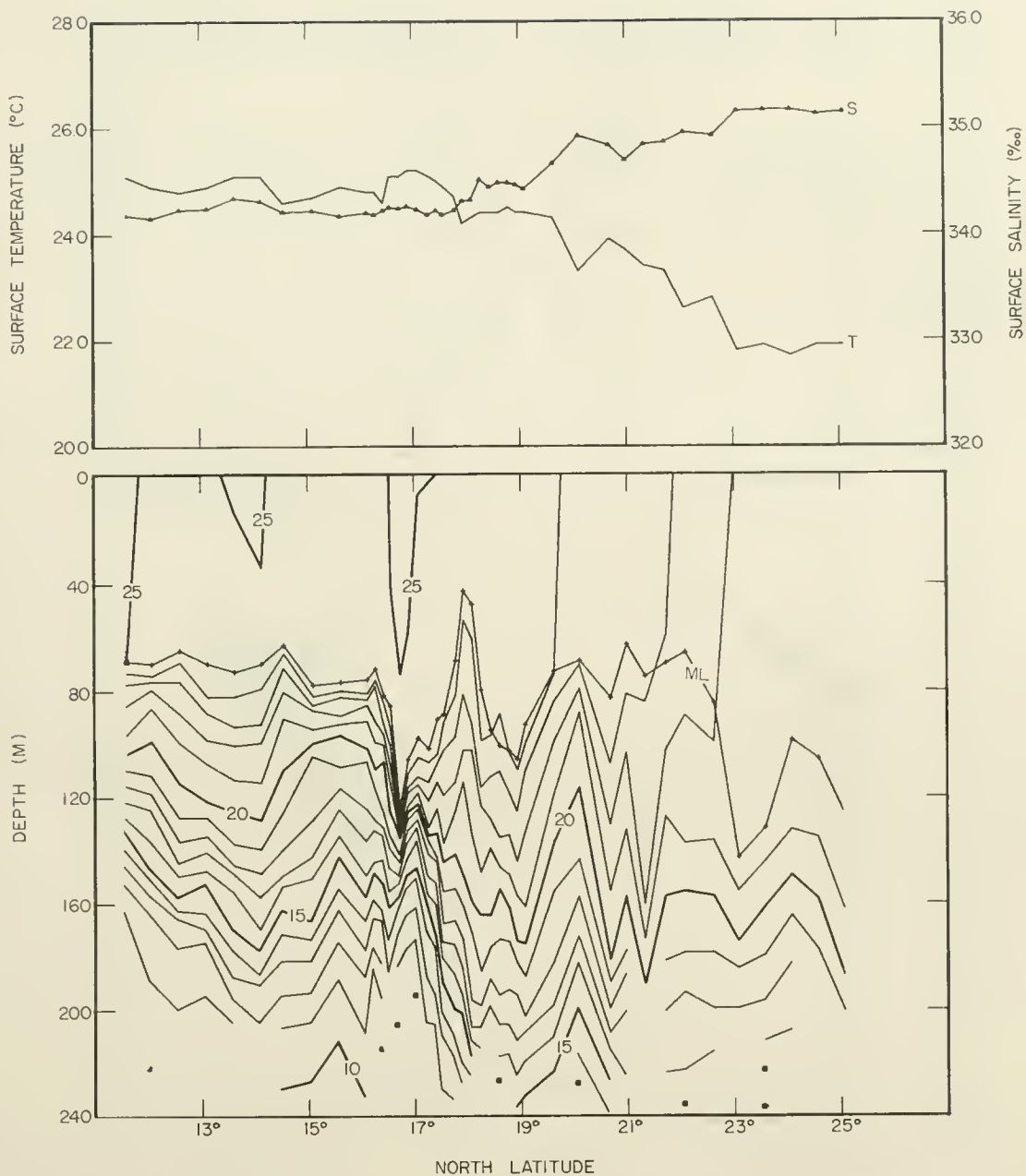


Figure 17.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 along long. 157° W. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

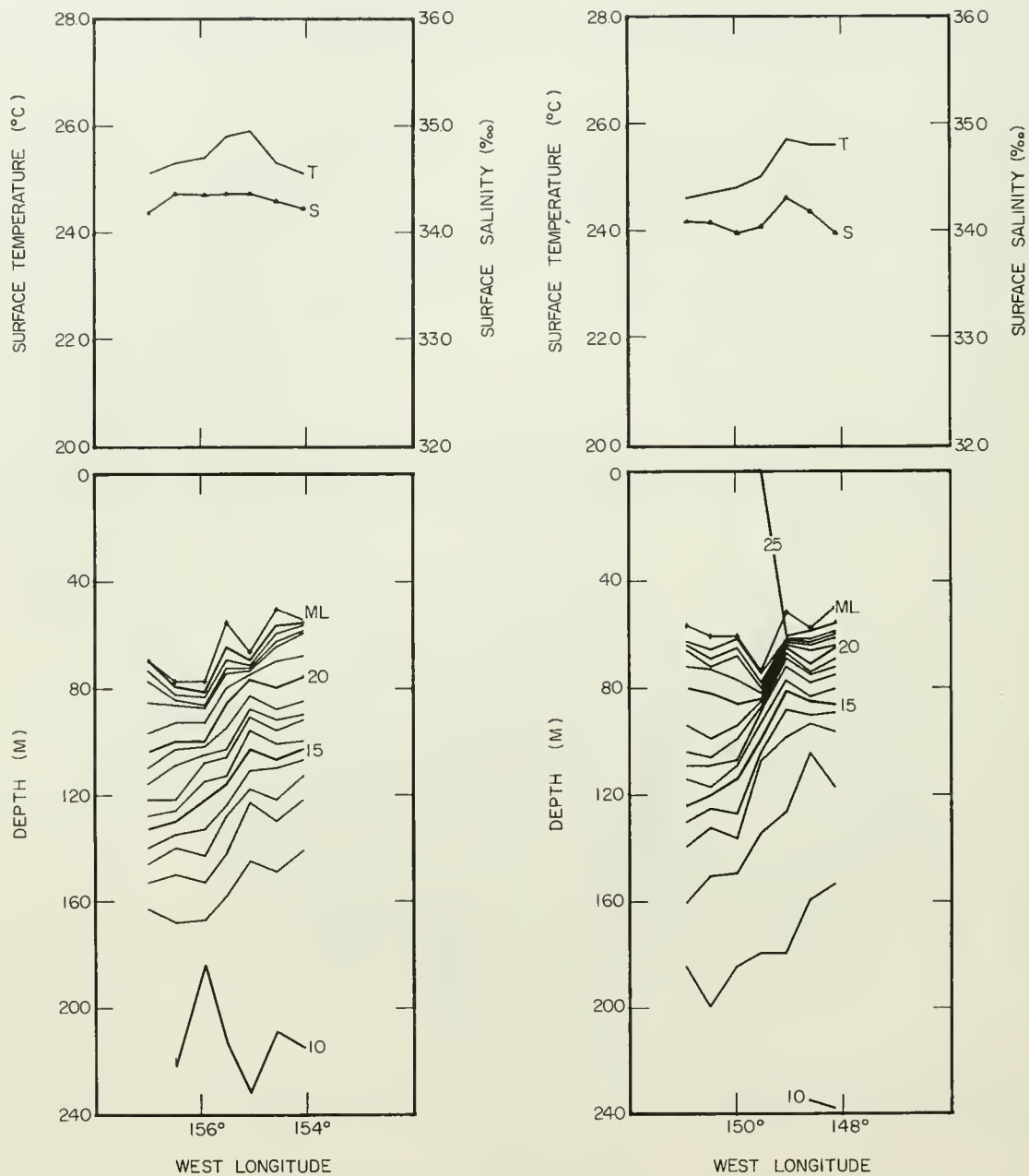


Figure 18.--Surface temperatures ($^{\circ}\text{C}$.) and salinities ($^{\circ}/\text{oo}$) (upper panel) and zonal BT temperature ($^{\circ}\text{C}$.) section (lower panel) for Townsend Cromwell cruise 13 between stations 7 and 7A, 25 and 26. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

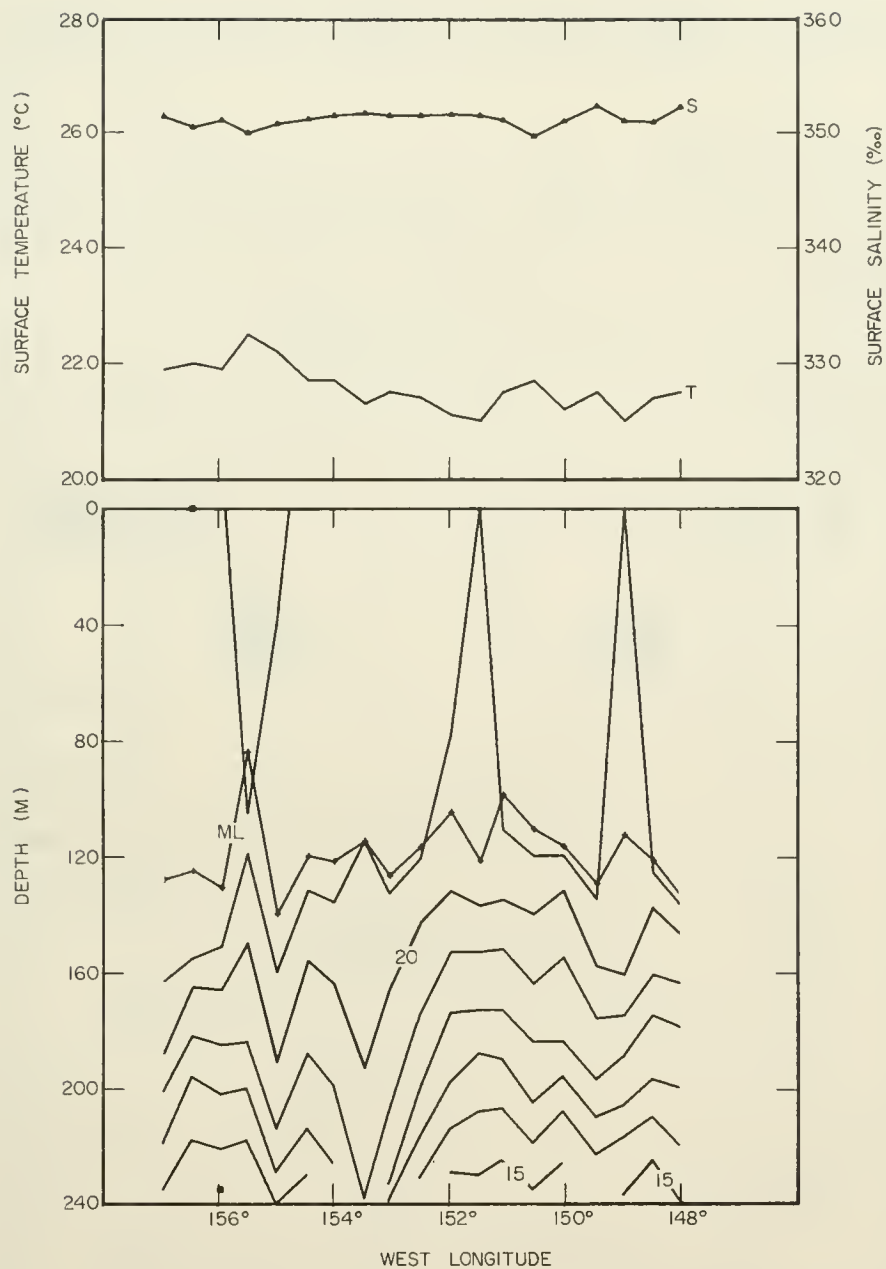


Figure 19.--Surface temperatures ($^{\circ}$ C.) and salinities ($^{\circ}$ /oo) (upper panel) and zonal BT temperature ($^{\circ}$ C.) section (lower panel) for Townsend Cromwell cruise 13 between stations 37 and 40. The bottom of the ML (mixed layer) is shown by the starred line in the lower panel.

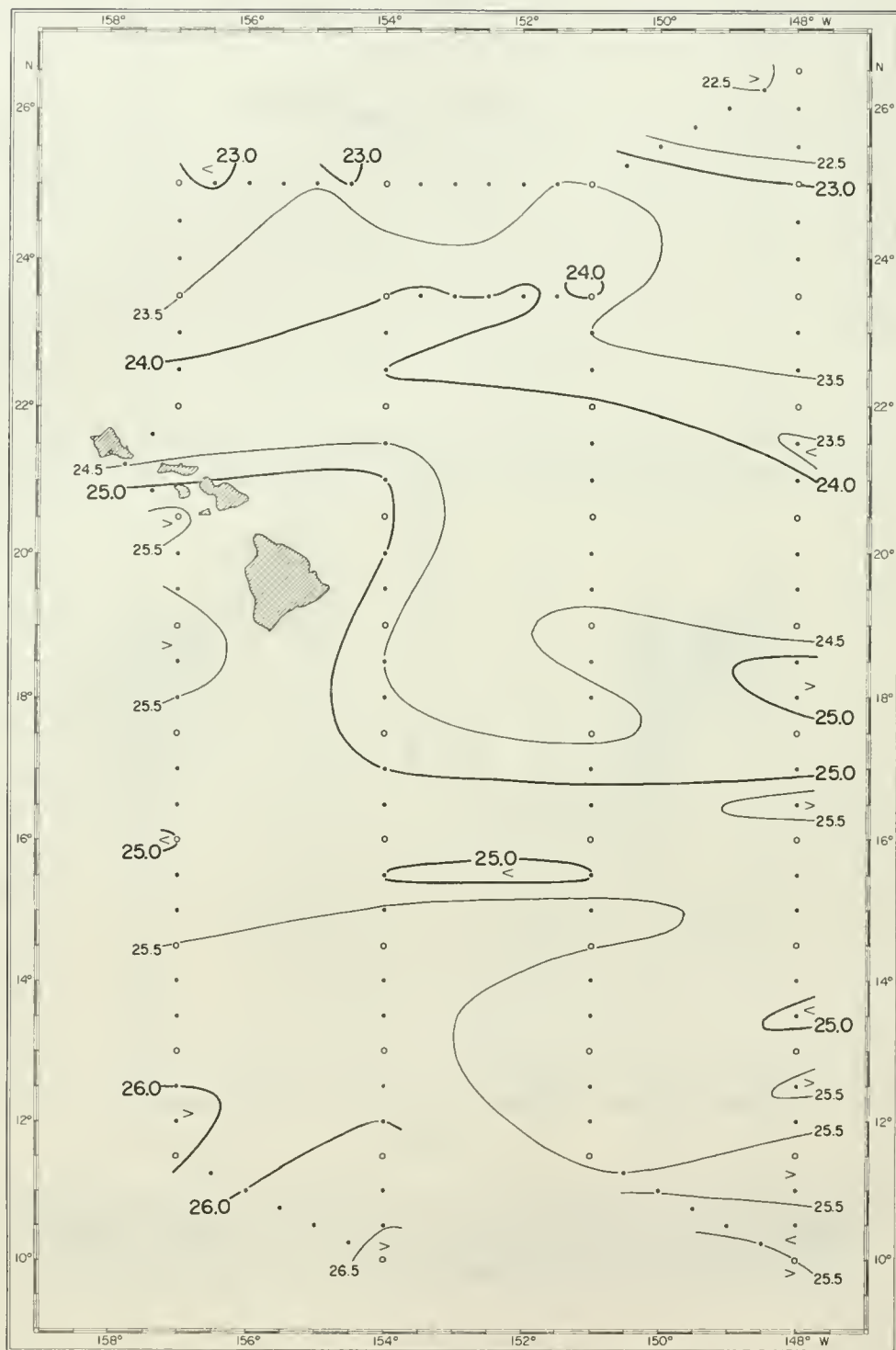


Figure 20.--Surface temperature distribution ($^{\circ}$ C.) based on bucket temperature at each BT cast for Townsend Cromwell cruise 11.

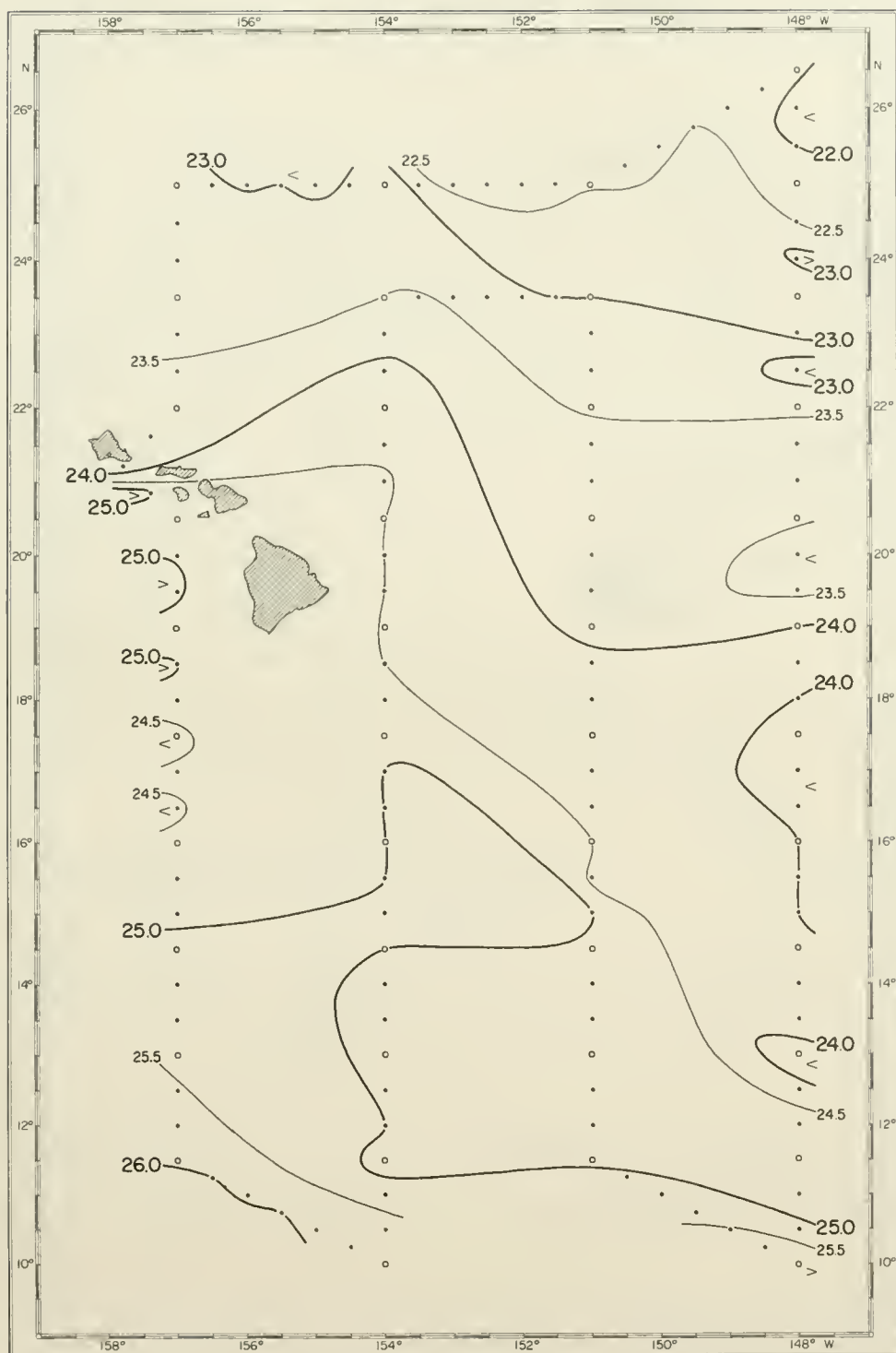


Figure 21.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 12.

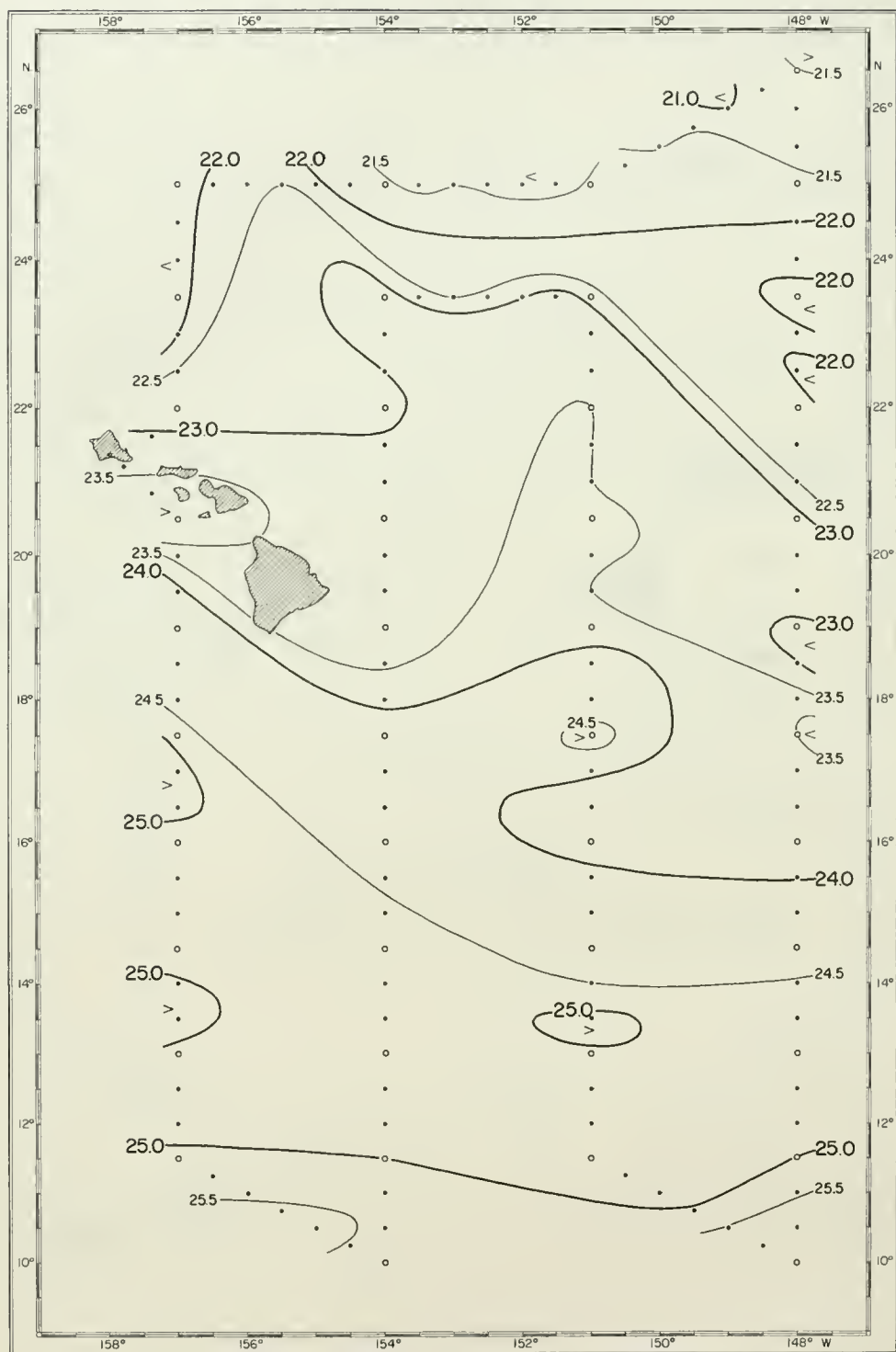


Figure 22.--Surface temperature distribution ($^{\circ}$ C.) based on intake temperature at each BT cast for Townsend Cromwell cruise 13.

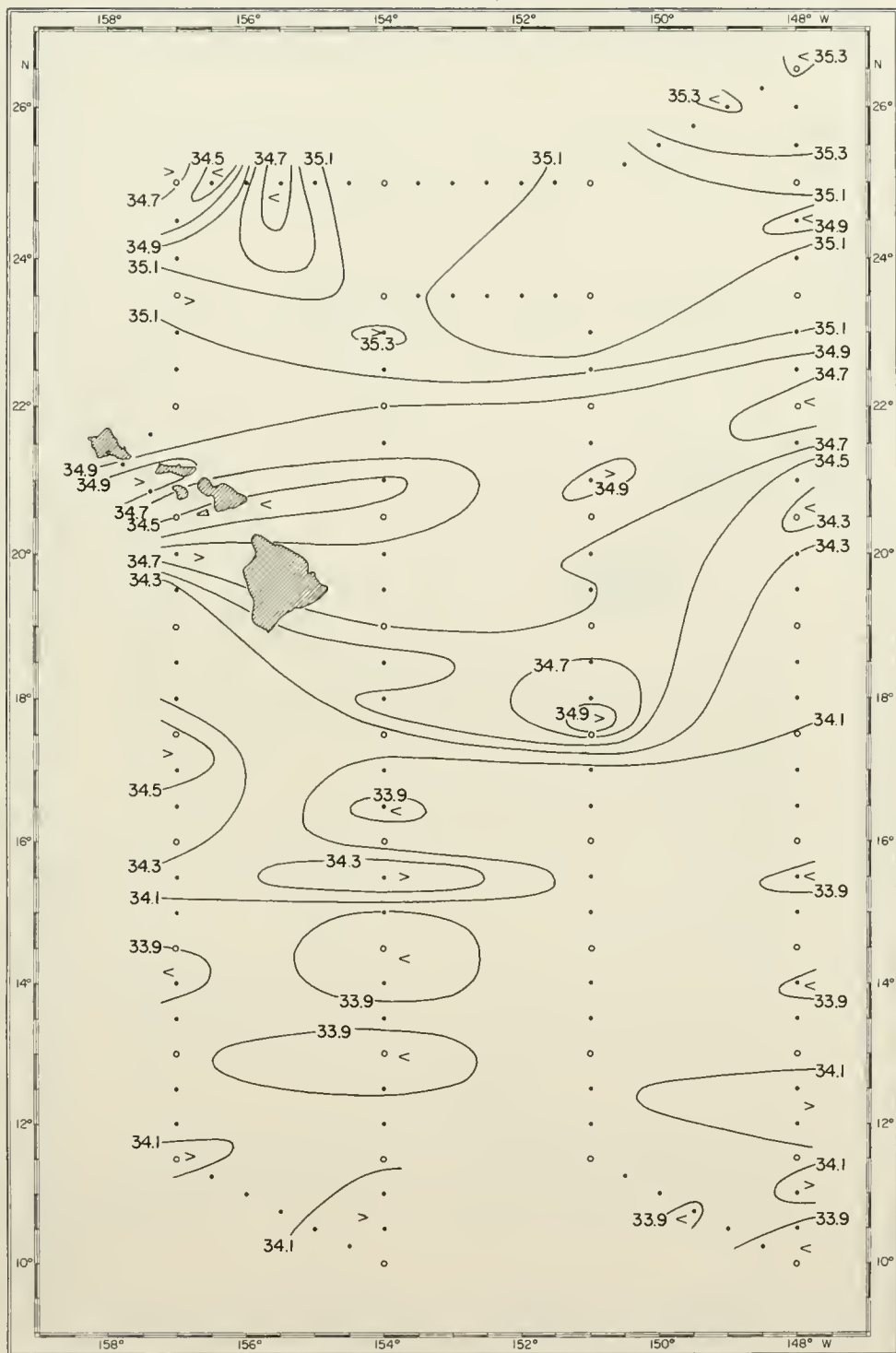


Figure 23.--Surface salinity distribution (‰) from bucket salinity samples at each BT cast for Townsend Cromwell cruise 11.

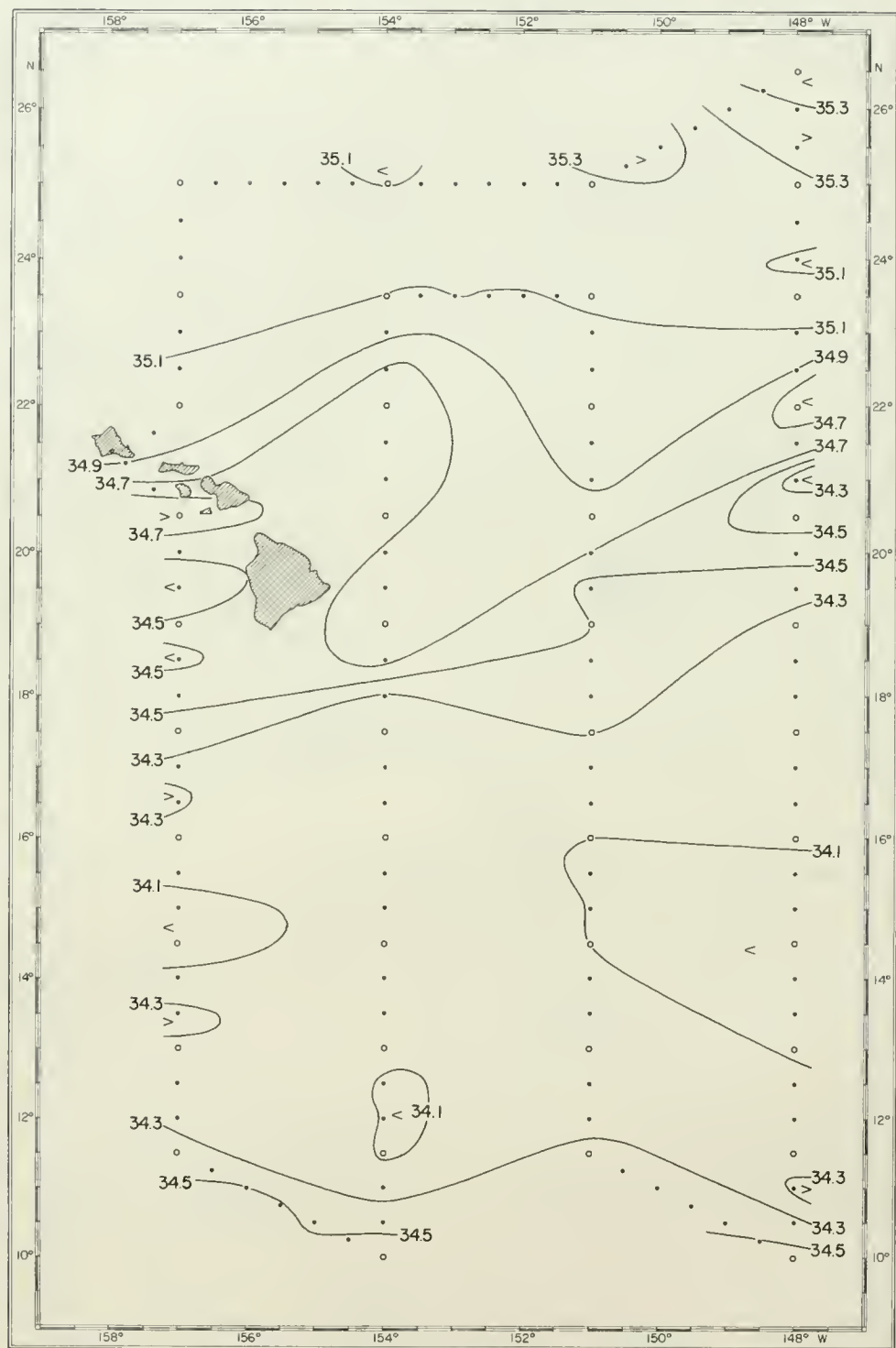


Figure 24.--Surface salinity distribution ($^{\circ}/_{\infty}$) from intake salinity samples at each BT cast for Townsend Cromwell cruise 12.

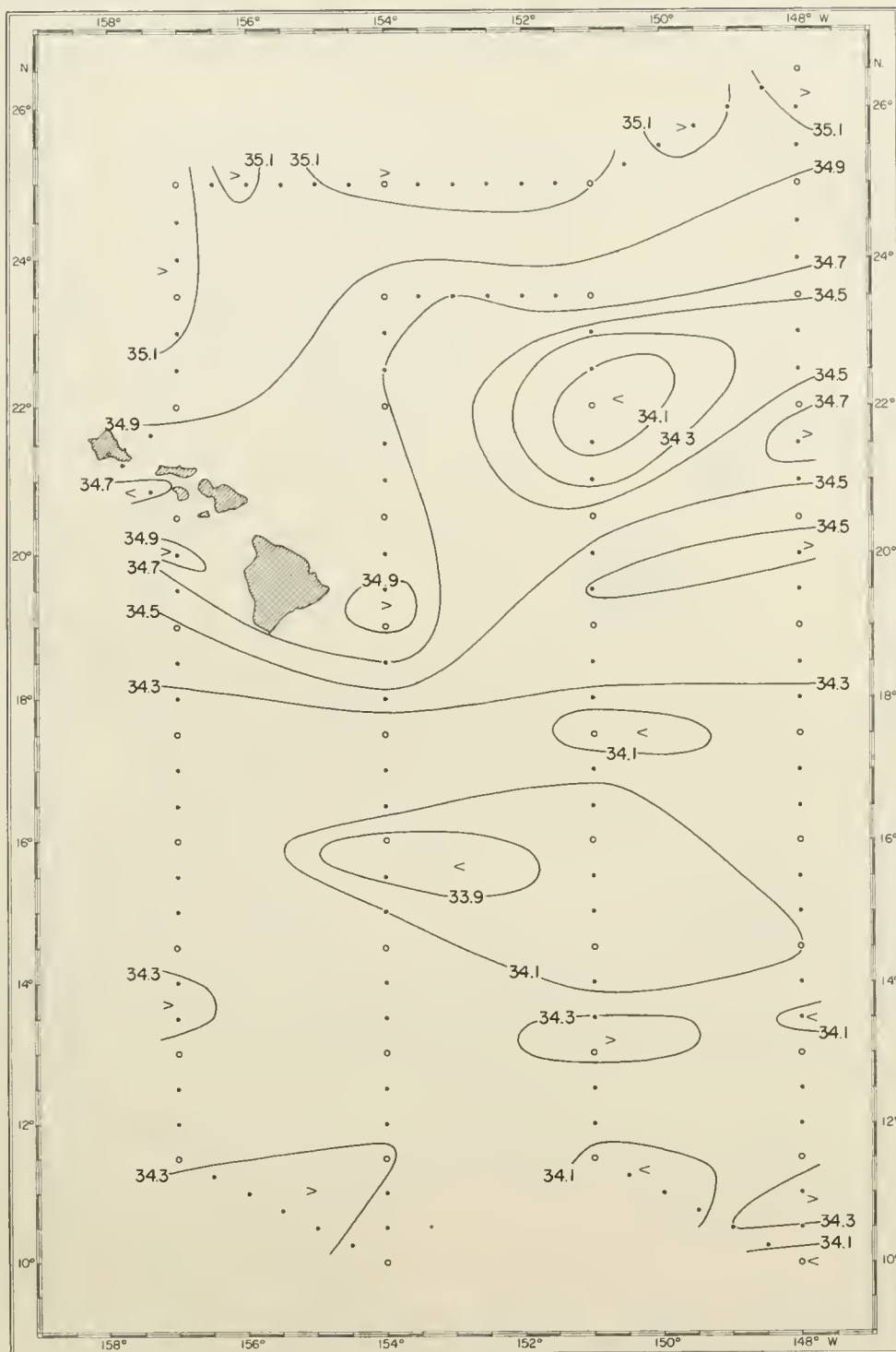


Figure 25.--Surface salinity distribution (‰) from intake salinity samples at each BT cast for Townsend Cromwell cruise 13.

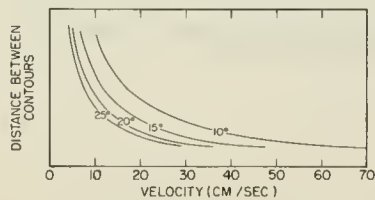
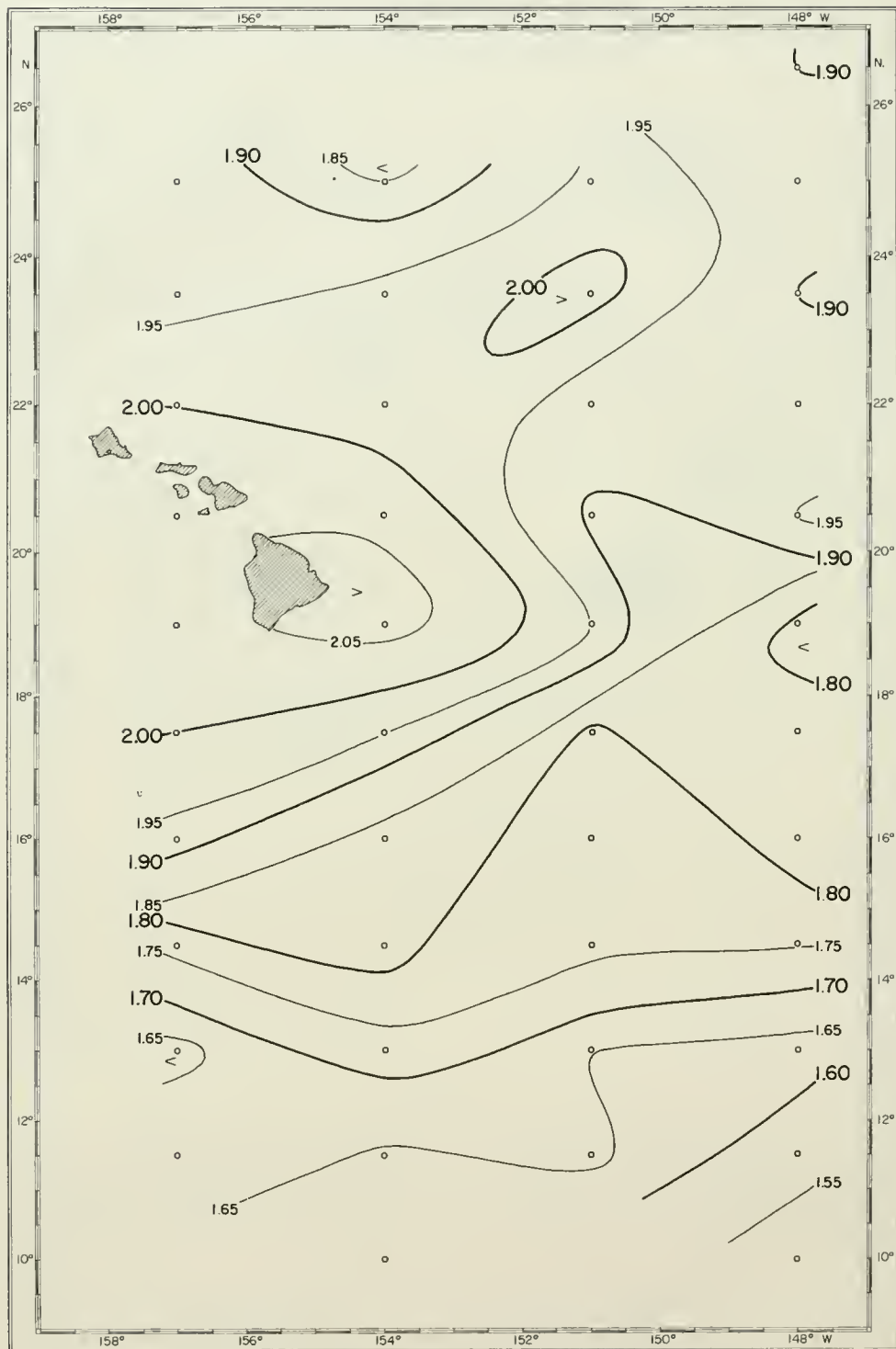


Figure 26.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 11.

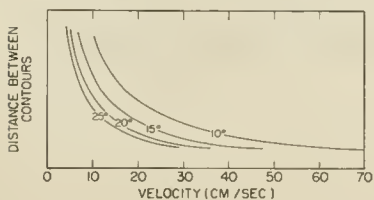
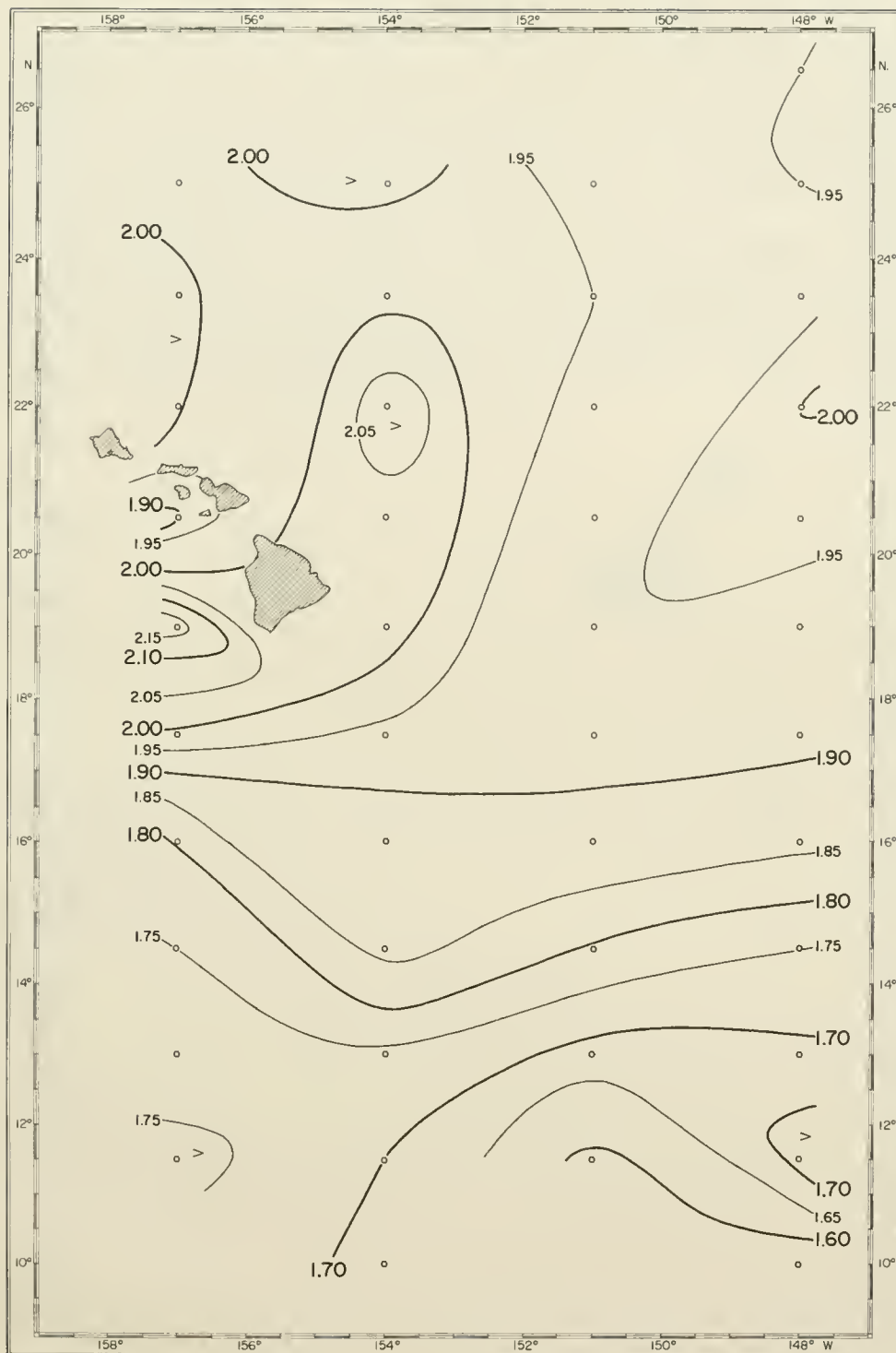


Figure 27.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 12.

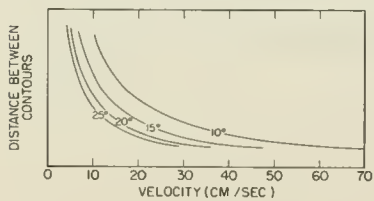
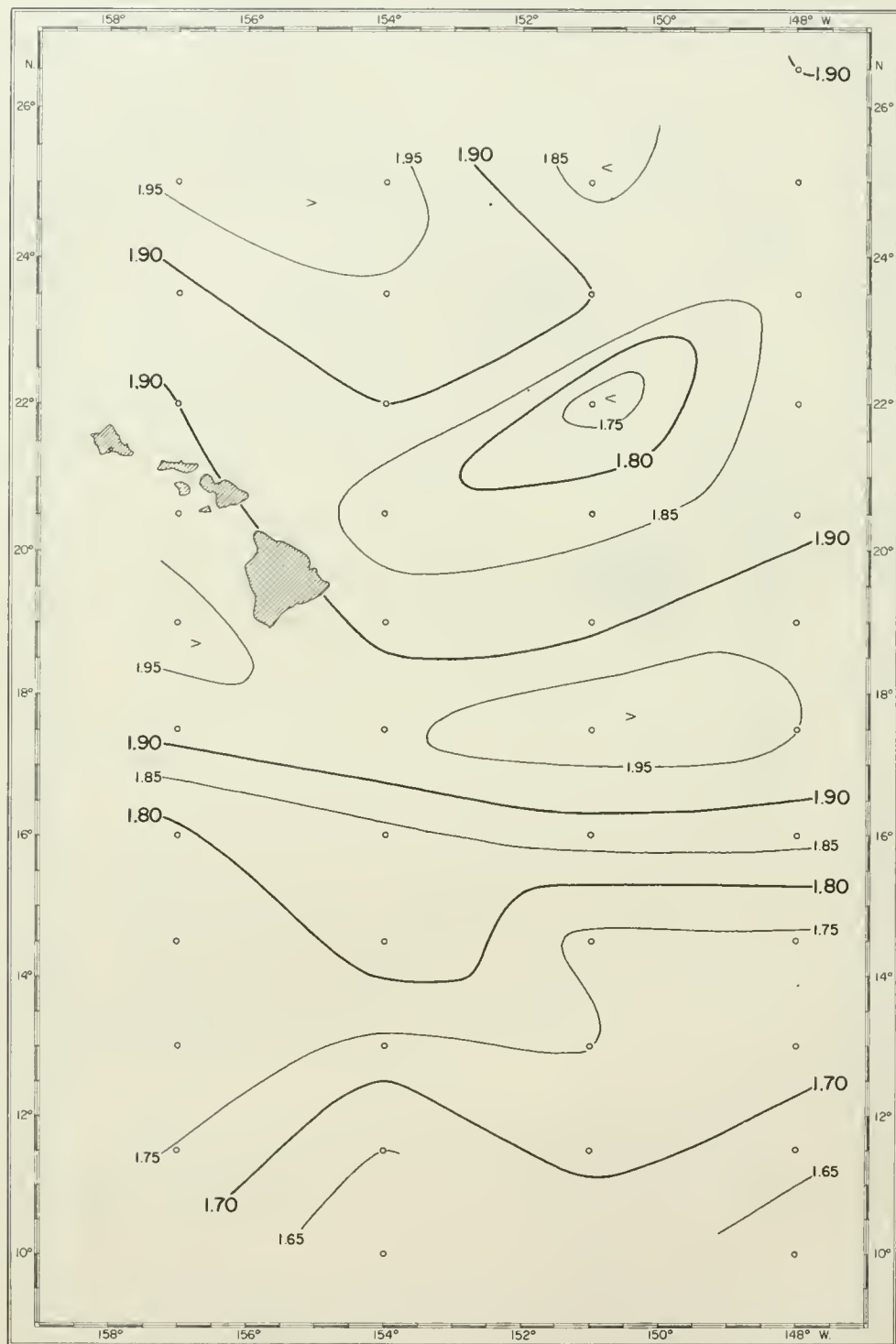


Figure 28.--Dynamic topography (dynamic meters) relative to 1,200 m. for Townsend Cromwell cruise 13.

TABLES

Information printed in the station heading has the following units or coding. Latitude and longitude are in degrees and minutes. Wet and dry bulb temperatures are in degrees Celsius. Wind speed is in knots. Barometric pressure is in tens and units of millibars (initial 9 or 10 omitted). Wind direction, weather, visibility, cloud type, and cloud cover are coded in the manner described by the International Ship Weather Code.

The observed data are presented in the following units: Depth in meters; temperature in degrees Celsius; salinity in grams per kilogram; oxygen in milliliters per liter; and phosphate ($\text{PO}_4\text{-P}$) in microgram-atoms per liter.

The derived data are listed with the following units: Density anomaly as $\sigma\text{-t}$; specific volume anomaly (δ) in 10^5 cubic centimeters per gram; and dynamic depth anomaly (dyn. dpth.) in dynamic meters.

Table 1.--Original and derived oceanographic data for Townsend Cromwell cruise 11

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL 11, STATION 1, 20-36N LAT, 157-13W LONG, DEC. 2, 1964, 0600 G.C.T.						2, 1964, 0600 G.C.T.						
DRY BULB 25.7 WET BULB 21.9 WIND SPEED 10, DIR. 12 BAR. 16 WEATHER 02 VIS. 7 CLOUD TYPE , COVER												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.67	34.37			22.68	517.8	0.	25.67	34.37	22.68	517.8	0.000
10.	25.66	34.36			22.68	518.6	10.	25.66	34.36	22.68	518.6	0.052
30.Δ	25.60	34.52			22.82	506.1	20.	25.64	34.42	22.73	514.3	0.104
50.Δ	25.48	34.82			23.08	481.8	30.	25.60	34.52	22.82	506.1	0.156
77.	25.42	34.93			23.11	480.4	50.	25.48	34.82	23.08	481.8	0.255
102.	24.38	34.82			23.41	451.9	75.	25.44	34.84	23.10	480.4	0.376
128.	22.58	35.08			24.13	384.0	100.	24.49	34.82	23.38	455.3	0.494
154.	21.42	35.08			24.46	353.8	150.	21.59	35.09	24.42	357.6	0.699
180.	19.78	35.04			24.87	315.5	200.	18.18	34.87	25.14	289.8	0.862
193.	18.84	34.94			25.03	300.0	250.	15.08	34.53	25.61	245.9	0.997
228.	15.84	34.60			25.50	256.5	300.	12.53	34.29	25.95	213.7	1.113
255.	14.96	34.52			25.63	244.2	400.	7.98	34.15	26.63	148.9	1.296
280.	14.02	34.42			25.75	232.7	500.	6.72	34.23	26.87	126.4	1.435
307.	11.97	34.24			26.02	206.7	600.	5.80	34.30	27.05	109.8	1.554
408.	7.81	34.16			26.66	145.5	700.	5.18	34.38	27.18	97.4	1.659
511.	6.68	34.24			26.89	125.1	800.	4.81	34.45	27.28	88.5	1.753
612.	5.69	34.31			27.07	108.0	1000.	4.18	34.51	27.40	78.6	1.922
814.	4.77	34.46			27.30	87.5						
1017.	4.14	34.52			27.41	77.3						

CROMWELL 11, STATION 2, 18-59N LAT, 156-59W LONG, DEC. 2, 1964, 1600 G.C.T.						2, 1964, 1600 G.C.T.						
DRY BULB 24.8 WET BULB 21.1 WIND SPEED 15, DIR. 15 BAR. 16 WEATHER 02 VIS. 7 CLOUD TYPE , COVER 3												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.58	34.17			22.56	529.6	0.	25.58	34.17	22.56	529.5	0.000
11.	25.59	34.18			22.56	529.5	10.	25.59	34.18	22.56	529.5	0.053
30.Δ	25.56	34.18			22.57	529.4	20.	25.58	34.18	22.57	529.5	0.107
50.Δ	25.52	34.18			22.59	529.0	30.	25.56	34.18	22.57	529.4	0.160
75.Δ	25.50	34.18			22.59	529.4	50.	25.52	34.18	22.59	529.0	0.267
100.Δ	25.38	34.21			22.65	524.7	75.	25.50	34.18	22.59	529.4	0.400
150.	19.80	34.57			24.51	348.9	100.	25.38	34.21	22.65	524.7	0.533
192.	16.42	34.49			25.28	276.2	150.	19.80	34.57	24.51	348.9	0.753
218.	14.11	34.36			25.69	237.2	200.	15.73	34.45	25.41	263.9	0.907
247.	11.28	34.22			26.14	194.3	250.	11.12	34.22	26.16	191.7	1.022
275.	10.46	34.29			26.34	175.5	300.	10.45	34.47	26.48	162.6	1.111
297.	10.48	34.46			26.47	163.8	400.	8.91	34.52	26.77	135.9	1.262
391.	9.05	34.52			26.75	137.7	500.	7.48	34.43	26.92	122.2	1.392
490.	7.60	34.44			26.91	123.1	600.	6.42	34.36	27.02	113.6	1.511
611.	6.32	34.36			27.03	112.7	700.	5.53	34.39	27.15	100.9	1.620
787.	4.93	34.45			27.27	90.0	800.	4.88	34.45	27.28	89.1	1.716
986.	4.37	34.51			27.38	80.6	1000.	4.33	34.51	27.39	79.9	1.887
1180.	3.79	34.55			27.47	72.2	1200.	3.76	34.56	27.48	71.6	2.040
1473.	3.09	34.59			27.57	62.9						

CROMWELL 11, STATION 3, 17-32N LAT, 156-56W LONG, DEC. 3, 1964, 0100 G.C.T.						3, 1964, 0100 G.C.T.						
DRY BULB 25.2 WET BULB 21.2 WIND SPEED 22, DIR. 07 BAR. 13 WEATHER 02 VIS. CLOUD TYPE 8, COVER 1												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
1.	25.28	34.44			22.85	501.3	0.	25.28	34.44	22.85	501.3	0.000
11.	25.25	34.44			22.86	500.9	10.	25.25	34.44	22.86	500.9	0.050
30.Δ	25.26	34.44			22.86	501.9	20.	25.25	34.44	22.86	501.2	0.101
50.Δ	25.26	34.44			22.86	502.7	30.	25.26	34.44	22.86	501.9	0.151
75.	25.26	34.67			23.03	487.1	50.	25.26	34.44	22.86	502.7	0.253
101.	23.11	34.81			23.78	416.9	75.	25.26	34.67	23.03	487.1	0.377
125.	22.42	35.08			24.18	379.5	100.	23.20	34.80	23.75	419.8	0.492
148.	20.95	35.12			24.62	338.4	150.	20.85	35.12	24.64	336.2	0.682
175.	19.60	35.02			24.90	312.3	200.	17.44	34.79	25.27	277.9	0.837
189.	18.83	34.97			25.06	297.4	250.	12.28	34.26	25.98	209.6	0.960
224.	14.17	34.37			25.68	237.9	300.	9.96	34.24	26.39	171.3	1.056
247.	12.45	34.26			25.95	212.8	400.	8.52	34.37	26.72	140.6	1.213
275.	11.09	34.29			26.23	186.4	500.	7.30	34.39	26.92	122.6	1.346
300.	9.96	34.24			26.39	171.3	600.	6.62	34.45	27.06	110.0	1.463
400.	8.52	34.37			26.72	140.6	700.	5.93	34.48	27.17	99.5	1.569
500.	7.30	34.39			26.92	122.6	800.	5.31	34.50	27.26	91.2	1.666
599.	6.63	34.45			27.06	110.1	1000.	4.55	34.53	27.38	81.4	1.840
796.	5.33	34.50			27.26	91.5	1200.	3.87	34.56	27.47	72.9	1.997
993.	4.58	34.53			27.37	81.8						
1166.	3.94	34.55			27.46	73.9						
1383.	3.40	34.58			27.53	66.8						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.23

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL		11, STATION		4, 16- 24 LAT, 157- 0W LONG, DEC. 3, 1964, 1100 G.C.T.									
DRY BULB 24.5		WET BULB 21.8		WIND SPEED 17, DIR. 07		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	LXY.	P04-P	SIGMA-T	OELTA	DEPTH	TEMP.	SAL.	SIGMA-T	OELTA	DYN.OPTH.	
0.	25.21	34.45			22.88	498.5	0.	25.21	34.45	22.88	498.5	0.000	
11.	25.20	34.44			22.88	499.4	10.	25.20	34.44	22.88	499.3	0.050	
10.Δ	25.20	34.44			22.88	500.1	20.	25.20	34.44	22.88	499.8	0.101	
50.Δ	25.20	34.44			22.88	500.9	30.	25.20	34.44	22.88	500.1	0.151	
76.	24.73	34.76			23.26	465.3	50.	25.20	34.44	22.88	500.9	0.252	
101.	22.69	34.97			24.02	393.9	75.	24.77	34.75	23.24	467.4	0.374	
127.	21.27	34.95			24.40	358.3	100.	22.78	34.96	23.99	396.7	0.483	
152.	19.96	34.94			24.75	326.3	150.	20.08	34.94	24.72	329.0	0.665	
175.	17.79	34.76			25.16	287.3	200.	14.97	34.44	25.57	248.4	0.811	
192.	15.88	34.55			25.45	259.9	250.	11.39	34.38	26.24	184.6	0.920	
226.	12.52	34.24			25.92	215.0	300.	10.80	34.61	26.53	158.1	1.006	
250.	11.39	34.38			26.24	184.6	400.	8.27	34.42	26.80	133.0	1.153	
277.	10.83	34.55			26.48	162.8	500.	7.31	34.46	26.97	117.5	1.280	
306.	10.80	34.62			26.54	157.8	600.	6.44	34.46	27.09	106.7	1.393	
407.	8.05	34.40			26.82	131.3	700.	5.81	34.48	27.19	97.9	1.496	
508.	7.28	34.47			26.98	116.5	800.	5.36	34.52	27.27	90.7	1.592	
608.	6.37	34.46			27.10	105.9	1000.	4.55	34.54	27.38	80.9	1.765	
810.	5.32	34.52			27.28	90.0	1200.	3.83	34.56	27.47	72.2	1.920	
1015.	4.50	34.54			27.39	80.3	1500.	3.01	34.61	27.59	60.8	2.123	
1215.	3.78	34.56			27.48	71.6							
1516.	2.97	34.61			27.60	60.2							

CROMWELL		11, STATION		5, 14-31N LAT, 157- 1W LONG, DEC. 3, 1964, 2000 G.C.T.																			
DRY BULB 24.9		WET BULB 21.9		WIND SPEED 18, DIR. 07		BAR. 12		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 9											
DEPTH	TEMP.	SAL.	GXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.											
0.	25.62	34.08			22.49	537.2	0.	25.62	34.08	22.49	537.2	0.000											
9.	25.62	34.04			22.49	536.8	10.	25.62	34.09	22.49	536.8	0.054											
20.Δ	25.62	34.09			22.49	537.3	20.	25.62	34.09	22.49	537.3	0.108											
30.Δ	25.62	34.09			22.49	537.6	30.	25.62	34.09	22.49	537.6	0.162											
50.	25.35	34.49			22.87	501.7	50.	25.35	34.49	22.87	501.7	0.267											
75.	23.26	34.96			23.85	409.3	75.	23.26	34.96	23.85	409.3	0.382											
100.	21.41	35.04			24.43	354.5	100.	21.41	35.04	24.43	354.5	0.478											
125.	19.55	34.95			24.86	314.3	150.	16.02	34.50	25.38	265.4	0.634											
151.	15.87	34.48			25.40	263.5	200.	11.62	34.32	26.15	191.8	0.749											
175.	13.51	34.33			25.79	226.2	250.	9.24	34.25	26.51	158.0	0.838											
190.	12.45	34.35			26.02	204.8	300.	8.27	34.30	26.70	140.1	0.913											
224.	9.92	34.24			26.39	169.0	400.	8.10	34.54	26.92	121.7	1.045											
251.	9.23	34.25			26.51	157.7	500.	7.11	34.52	27.05	110.2	1.162											
276.	8.76	34.29			26.62	147.9	600.	6.30	34.51	27.15	101.2	1.269											
302.	8.23	34.30			26.71	139.6	700.	5.61	34.52	27.24	92.8	1.367											
401.	8.10	34.54			26.92	121.6	800.	5.03	34.53	27.32	85.4	1.457											
502.	7.09	34.52			27.05	110.0	1000.	4.21	34.56	27.44	75.0	1.619											
603.	6.28	34.51			27.15	100.9	1200.	3.57	34.58	27.52	67.5	1.763											
803.	5.01	34.53			27.32	85.2																	
1003.	4.20	34.56			27.44	74.9																	
1203.	3.56	34.58			27.52	67.4																	
1472.	2.87	34.61			27.61	58.7																	

CROMWELL 11, STATION 6, 12-56N LAT, 157- 0W LONG, DEC. 4, 1964, 0500 G.C.T.													
DRY BULB 25.3		WET BULB 23.2		WIND SPEED 17, DIR. 06		BAR. 10		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	GXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.93	33.90			22.25	559.3	0.	25.93	33.90	22.25	559.3	0.000	
10.	25.95	33.90			22.24	560.3	10.	25.95	33.90	22.24	560.3	0.056	
20.Δ	25.95	33.90			22.24	560.7	20.	25.95	33.90	22.24	560.7	0.113	
30.Δ	25.95	33.90			22.24	561.1	30.	25.95	33.90	22.24	561.1	0.169	
50.	23.26	34.47			23.48	443.7	50.	23.26	34.47	23.48	443.7	0.271	
75.	20.14	34.84			24.62	335.3	75.	20.14	34.84	24.62	335.3	0.369	
102.	17.08	34.64			25.24	277.3	100.	17.30	34.67	25.21	280.3	0.446	
126.	14.39	34.40			25.66	237.4	150.	12.20	34.29	26.02	203.2	0.568	
149.	12.29	34.30			26.01	204.4	200.	10.42	34.49	26.50	158.4	0.659	
174.	10.58	34.25			26.29	178.3	250.	9.91	34.62	26.69	141.7	0.735	
189.	10.50	34.41			26.42	165.4	300.	9.05	34.56	26.79	132.9	0.804	
223.	10.22	34.59			26.61	148.2	400.	8.07	34.59	26.96	117.5	0.930	
248.	9.97	34.62			26.68	142.4	500.	7.06	34.55	27.08	107.5	1.044	
272.	9.30	34.57			26.75	135.6	600.	6.18	34.53	27.18	98.1	1.148	
299.	9.06	34.56			26.78	133.1	700.	5.57	34.53	27.26	91.2	1.244	
396.	8.11	34.59			26.96	118.0	800.	5.11	34.54	27.32	85.6	1.333	
493.	7.13	34.55			27.07	102.2	1000.	4.28	34.56	27.43	75.6	1.496	
587.	6.27	34.53			27.17	99.1	1200.	3.60	34.59	27.52	67.1	1.641	
781.	5.20	34.54			27.31	86.7							
974.	4.38	34.56			27.42	76.9							
1166.	3.71	34.59			27.51	68.1							
1420.	3.01	34.61			27.59	60.1							

FROM ST DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL	11, STATION	7, 11-30N LAT, 156-59W LONG, DEC.	4, 1964, 1400 G.C.T.									
DRY BULB 25.5	WET BULB 23.0	WIND SPEED 14, DIR. 09	8AR. 09	WEATHER 02	VIS. 7	CLOUD TYPE	COVER					
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.24	34.12			22.32	552.7	0.	26.24	34.12	22.32	552.7	0.000
10.	26.25	34.11			22.31	554.1	10.	26.25	34.11	22.31	554.1	0.056
30.Δ	26.26	34.12			22.31	554.5	20.	26.26	34.11	22.31	554.5	0.112
50.	26.27	34.13			22.32	554.9	30.	26.26	34.12	22.31	554.5	0.167
75.	26.26	34.13			24.54	342.7	50.	26.27	34.13	22.32	554.9	0.279
100.	15.34	34.50			25.53	249.2	75.	20.26	34.78	24.54	342.7	0.392
125.	12.91	34.39			25.96	208.9	100.	15.34	34.50	25.53	249.2	0.467
151.	11.73	34.56			26.32	175.1	150.	11.76	34.55	26.31	176.2	0.574
176.	11.01	34.64			26.51	157.0	200.	10.73	34.71	26.62	147.4	0.656
191.	10.86	34.70			26.59	150.3	250.	10.15	34.71	26.72	138.8	0.728
224.	10.38	34.71			26.68	142.1	300.	9.53	34.69	26.81	131.1	0.796
249.	10.16	34.71			26.72	138.9	400.	8.58	34.63	26.92	122.2	0.924
276.	9.87	34.70			26.76	135.4	500.	7.60	34.58	27.02	112.9	1.042
301.	9.52	34.69			26.81	130.9	600.	6.85	34.56	27.11	105.1	1.152
401.	8.57	34.63			26.92	122.2	700.	6.16	34.55	27.20	97.6	1.255
501.	7.59	34.58			27.03	117.8	800.	5.57	34.55	27.27	91.0	1.350
601.	6.84	34.56			27.12	105.0	1000.	4.74	34.56	27.38	81.7	1.525
801.	5.56	34.55			27.27	90.9	1200.	3.92	34.58	27.48	71.7	1.680
1001.	4.74	34.56			27.38	81.7						
1200.	3.92	34.58			27.48	71.7						
1480.	3.14	34.61			27.58	62.1						

CROMWELL	11, STATION	7A, 10- ON LAT, 154- ON LONG, DEC.	5, 1964, 1000 G.C.T.									
DRY BULB 25.1	WET BULB 23.4	WIND SPEED 16, DIR. 14	8AR. 12	WEATHER 01	VIS. 6	CLOUD TYPE	COVER 6					
DEPTH	TEMP.	SAL.	XY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.Δ	26.79	34.15			22.17	567.1	0.	26.79	34.15	22.17	567.1	0.000
9.	26.79	34.15	5.25		22.17	567.5	10.	26.79	34.15	22.17	567.5	0.057
20.Δ	26.79	34.15			22.17	567.9	20.	26.79	34.15	22.17	567.9	0.114
30.Δ	26.79	34.15			22.17	568.3	30.	26.79	34.15	22.17	568.3	0.172
48.	22.63	34.79	5.26		23.90	403.2	50.	22.31	34.82	24.01	392.6	0.268
61.	20.44	34.84	5.15		24.54	342.4	75.	16.83	34.60	25.27	273.5	0.352
74.	17.05	34.62	4.13		25.23	277.2	100.	12.98	34.39	25.94	209.6	0.413
100.	12.98	34.39	2.48		26.35	171.7	150.	11.42	34.73	26.51	157.0	0.505
124.	11.86	34.63	0.57		26.51	157.0	200.	10.69	34.74	26.65	144.5	0.581
150.	11.42	34.73	0.24		26.61	148.0	250.	10.14	34.72	26.73	137.9	0.653
174.	10.92	34.74	0.28		26.63	146.0	300.	9.81	34.71	26.78	134.3	0.721
189.	10.78	34.74	0.49		26.68	141.7	400.	9.02	34.67	26.88	126.5	0.853
222.	10.49	34.74	0.44		26.73	138.0	500.	8.14	34.61	26.97	118.5	0.976
249.	10.15	34.72	0.48		26.76	135.8	600.	7.05	34.57	27.10	107.0	1.090
274.	9.94	34.71	0.54		26.78	134.3	700.	6.20	34.56	27.20	97.5	1.194
299.	9.82	34.71	0.49		26.87	126.6	800.	5.54	34.56	27.28	89.9	1.289
398.	9.04	34.67	0.51		26.58	117.9	1000.	4.59	34.57	27.40	79.0	1.459
507.	8.07	34.61	0.28		27.10	106.3	1200.	3.83	34.59	27.50	70.0	1.610
606.	6.98	34.57	0.43		27.28	90.0						
799.	5.55	34.56	0.76		27.40	79.0						
999.	4.59	34.57	1.00		27.50	70.0						
1198.	3.84	34.59	1.41		27.60	60.5						
1499.	3.06	34.62	1.84									

CROMWELL	11, STATION	8, 11-31N LAT, 154- ON LONG, DEC.	5, 1964, 1900 G.C.T.									
DRY BULB 25.9	WET BULB 23.2	WIND SPEED 18, DIR. 06	8AR. 14	WEATHER 02	VIS. 7	CLOUD TYPE 8,	COVER 4					
DEPTH	TEMP.	SAL.	UXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	26.18	34.09	5.42		22.31	553.1	0.	26.18	34.09	22.31	553.1	0.000
20.Δ	26.18	34.09			22.31	553.9	10.	26.18	34.09	22.31	553.5	0.056
30.Δ	26.18	34.09			22.31	554.3	20.	26.18	34.09	22.31	553.9	0.111
49.	23.33	34.70	6.10		23.63	429.0	30.	26.18	34.09	22.31	554.3	0.167
61.	21.87	34.78	5.70		24.11	384.0	50.	23.21	34.71	23.68	424.8	0.266
75.	19.50	34.72	5.48		24.70	328.0	75.	19.50	34.72	24.70	328.0	0.361
100.	15.25	34.51	3.74		25.56	246.5	100.	15.25	34.51	25.56	246.5	0.433
126.	12.60	34.36	3.21		26.00	205.2	150.	11.68	34.48	26.27	180.0	0.541
148.	11.69	34.47	1.96		26.26	180.9	200.	10.39	34.60	26.59	149.6	0.624
175.	11.39	34.57	1.09		26.39	168.8	250.	10.06	34.68	26.71	139.5	0.697
189.	10.58	34.57	1.04		26.54	155.0	300.	9.50	34.66	26.79	132.6	0.765
224.	10.38	34.68	0.40		26.66	144.3	400.	8.45	34.61	26.92	121.7	0.894
248.	10.09	34.68	0.34		26.71	139.9	500.	7.77	34.58	27.00	115.5	1.013
275.	9.76	34.68	0.38		26.76	135.0	600.	6.82	34.55	27.11	105.4	1.125
302.	9.48	34.66	0.45		26.79	132.5	700.	6.08	34.54	27.20	97.0	1.227
401.	8.44	34.61	0.60		26.92	121.6	800.	5.48	34.55	27.28	89.8	1.322
502.	7.76	34.58	0.70		27.00	115.3	1000.	4.46	34.57	27.42	77.4	1.491
601.	6.81	34.55	0.76		27.11	105.3	1200.	3.74	34.59	27.51	68.8	1.639
801.	5.47	34.55	0.92		27.28	89.7	1500.	2.98	34.62	27.61	59.5	1.834
1002.	4.45	34.57	0.74		27.42	77.3						
1201.	3.74	34.59	1.57		27.51	68.8						
1500.	2.98	34.62	1.96		27.61	59.5						

TEMPERATURE ERROR TERM AT 200. METERS IS 0.10

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 9, 13- ON LAT, 154- 1W LONG, DEC. 6, 1964, 0500 G.C.T.													
DRY BULB 25.6		WET BULB 22.9		WIND SPEED 16, DIR. 05		BAR. 15		WEATHER 03		VIS. 7		CLDUO TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
1.	25.70	33.88	5.02		22.30	554.0	0.	25.70	33.88	22.30	554.0	0.000	
11.	25.75	33.88	5.06		22.29	555.9	10.	25.75	33.88	22.29	556.1	0.056	
20.	25.72	33.95			22.35	550.3	20.	25.72	33.95	22.35	550.3	0.112	
30.	25.64	34.00			22.41	544.7	30.	25.64	34.00	22.41	544.7	0.167	
51.	24.13	34.73	5.51		23.42	449.3	50.	24.23	34.69	23.36	454.9	0.267	
76.	21.35	34.92	5.29		24.36	360.7	75.	21.46	34.92	24.33	363.5	0.371	
101.	19.49	34.94	4.64		24.87	312.7	100.	19.56	34.94	24.85	314.3	0.456	
125.	16.83	34.70	4.42		25.34	268.0	150.	13.75	34.37	25.77	227.3	0.592	
152.	13.52	34.35	4.44		25.86	224.3	200.	10.94	34.54	26.45	163.7	0.691	
176.	11.50	34.33	2.26		26.18	188.5	250.	10.64	34.68	26.61	149.2	0.770	
190.	11.01	34.46	1.39		26.37	170.6	300.	9.76	34.63	26.72	139.2	0.843	
224.	10.99	34.67	0.32		26.54	155.6	400.	8.63	34.60	26.88	125.3	0.976	
251.	10.62	34.68	0.26		26.61	149.0	500.	7.50	34.56	27.02	112.9	1.096	
277.	10.29	34.66	0.26		26.66	145.4	600.	6.68	34.55	27.13	103.5	1.205	
301.	9.74	34.63	0.36		26.73	138.9	700.	5.95	34.54	27.22	95.4	1.306	
401.	8.62	34.60	0.47		26.89	125.2	800.	5.32	34.54	27.29	88.4	1.399	
503.	7.47	34.56	0.50		27.03	112.5	1000.	4.46	34.57	27.42	77.5	1.567	
603.	6.66	34.55	0.57		27.13	103.2	1200.	3.80	34.59	27.50	69.6	1.716	
805.	5.29	34.54	0.64		27.30	88.1							
1007.	4.44	34.57	1.06		27.42	77.2							
1208.	3.78	34.59	1.50		27.50	69.3							
1455.	3.02	34.60	1.73		27.59	61.2							

CROMWELL 11, STATION 10, 14-29N LAT, 154- 2W LONG, DEC. 6, 1964, 1700 G.C.T.														
DRY BULB 24.7		WET BULB 22.1		WIND SPEED 18, DIR. 06		BAR. 13		WEATHER 15		VIS. 7		CLCUC TYPE R, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
1.	25.70	33.83	5.46		22.27	557.6	0.	25.70	33.83	22.27	557.6	0.000		
11.	25.74	33.82	5.42		22.25	559.9	10.	25.74	33.82	22.25	559.7	0.056		
30.	25.74	33.82			22.25	560.6	20.	25.75	33.82	22.24	560.5	0.113		
51.	25.73	33.82	5.40		22.25	561.1	30.	25.74	33.82	22.25	560.6	0.169		
75.	23.71	33.72	5.95		22.78	511.2	50.	25.75	33.82	22.24	561.6	0.282		
101.	21.85	34.73	5.80		24.07	388.5	75.	23.71	33.72	22.78	511.2	0.417		
121.	20.24	34.85	5.61		24.60	339.0	100.	21.92	34.69	24.03	393.3	0.531		
151.	16.40	34.56	4.42		25.34	269.4	150.	16.57	34.57	25.31	272.0	0.699		
176.	14.24	34.40	3.97		25.69	235.7	200.	11.47	34.24	26.12	195.3	0.817		
196.	12.22	34.24	3.70		25.98	208.5	250.	10.04	34.33	26.44	164.9	0.907		
225.	10.79	34.34	2.10		26.32	176.4	300.	8.62	34.33	26.68	142.9	0.985		
250.	10.04	34.33	2.25		26.44	164.9	400.	7.82	34.50	26.93	120.4	1.118		
276.	8.83	34.24	2.42		26.57	152.6	500.	6.91	34.50	27.06	108.8	1.233		
301.	8.62	34.34	1.49		26.68	142.5	600.	6.12	34.52	27.18	98.1	1.338		
402.	7.80	34.50	0.62		26.93	120.1	700.	5.49	34.53	27.26	90.5	1.433		
503.	6.88	34.50	0.64		27.06	108.5	800.	4.98	34.53	27.33	84.9	1.522		
603.	6.10	34.52	0.74		27.18	97.8	1000.	4.21	34.56	27.44	75.1	1.684		
803.	4.97	34.53	0.81		27.33	84.7	1200.	3.57	34.58	27.52	67.5	1.828		
1008.	4.18	34.56	1.10		27.44	74.7	1500.	2.86	34.62	27.62	58.2	2.019		
1208.	3.55	34.58	1.42		27.52	67.3								
1508.	2.85	34.62	1.96		27.62	58.0								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.18

CROMWELL 11, STATION 11, 15-57N LAT, 153-58W LONG, DEC. 7, 1964, 0300 G.C.T.														
DRY BULB 25.5		WET BULB 22.1		WIND SPEED 14, DIR. 05		BAR. 14		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 3		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	25.27	33.97	5.52		22.50	534.9	0.	25.27	33.97	22.50	534.9	0.000		
10.	25.27	33.97	5.60		22.50	535.3	10.	25.27	33.97	22.50	535.3	0.054		
30.	25.14	34.66			23.06	482.6	20.	25.22	34.29	22.76	510.8	0.107		
50.	25.00	34.77	5.52		23.19	471.4	30.	25.14	34.66	23.06	482.6	0.157		
75.	23.54	34.98	5.55		23.78	415.6	50.	25.00	34.77	23.19	471.4	0.253		
99.	21.81	35.04	5.80		24.32	365.0	75.	23.54	34.98	23.78	415.6	0.364		
124.	21.22	35.22	5.47		24.42	337.4	100.	21.78	35.05	24.34	363.7	0.463		
149.	19.73	35.06	5.01		24.90	311.7	150.	19.66	35.05	24.91	310.8	0.633		
173.	17.64	34.77	4.77		25.20	283.0	200.	14.25	34.42	25.70	235.3	0.770		
187.	15.71	34.57	4.89		25.50	254.6	250.	10.56	34.19	26.24	183.9	0.876		
220.	12.46	34.26	4.82		25.95	212.3	300.	9.27	34.26	26.52	158.2	0.962		
246.	10.74	34.20	4.18		26.22	186.3	400.	7.57	34.32	26.83	129.8	1.107		
272.	9.84	34.18	3.80		26.36	173.1	500.	6.74	34.42	27.02	112.0	1.229		
297.	9.33	34.26	2.70		26.51	159.4	600.	6.13	34.46	27.13	102.2	1.338		
396.	7.62	34.32	1.38		26.82	130.7	700.	5.49	34.49	27.24	92.9	1.436		
492.	6.79	34.42	0.75		27.01	113.0	800.	4.91	34.51	27.32	85.3	1.526		
589.	6.20	34.46	0.76		27.12	103.4	1000.	4.12	34.54	27.43	75.7	1.689		
784.	4.99	34.51	0.96		27.31	86.2	1200.	3.49	34.58	27.52	66.9	1.834		
979.	4.19	34.53	1.15		27.41	76.8								
1164.	3.63	34.58	1.40		27.51	67.9								
1414.	2.94	34.61	1.74		27.60	59.2								

SALINITY ERROR TERM AT 20. METERS IS 0.06

FROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 12, 17-30N LAT, 153-58W LONG, DEC. 7, 1964, 1300 G.C.T.													
DRY BULB 24.3		WET BULB 21.7		WIND SPEED 14, DIR. 04		BAR. 15		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0.	24.98	34.04	4.98		22.64	521.4	0.	24.98	34.04	22.64	521.4	0.000	
10.	24.99	34.04	5.07		22.64	522.1	10.	24.99	34.04	22.64	522.1	0.053	
30.Δ	25.06	34.32			22.83	504.7	20.	25.02	34.15	22.72	515.1	0.105	
51.	25.13	34.65	4.79		23.06	483.8	30.	25.06	34.32	22.83	504.7	0.156	
78.	25.03	34.76	4.90		23.17	474.0	50.	25.13	34.64	23.05	484.7	0.256	
101.	22.92	35.03	5.13		24.00	395.8	75.	25.11	34.75	23.14	476.9	0.377	
126.	21.68	35.16	4.86		24.45	353.9	100.	23.02	35.02	23.96	399.5	0.487	
151.	20.70	35.15	4.79		24.71	329.9	150.	20.75	35.15	24.70	330.8	0.671	
175.	18.85	34.92	4.31		25.02	301.0	200.	16.58	34.63	25.35	270.0	0.823	
190.	17.53	34.74			25.21	283.2	250.	11.81	34.19	26.02	205.9	0.943	
224.	14.74	34.39	4.14		25.69	237.8	300.	10.03	34.17	26.32	177.6	1.039	
248.	11.93	34.20	4.46		26.00	207.5	400.	7.63	34.20	26.72	139.7	1.199	
274.	10.81	34.17	3.00		26.18	190.3	500.	6.17	34.24	26.95	118.0	1.330	
300.	10.03	34.17	3.65		26.32	177.6	600.	5.91	34.40	27.11	104.1	1.442	
396.	7.71	34.20	2.17		26.71	140.9	700.	5.41	34.46	27.22	94.6	1.542	
493.	6.21	34.23	1.35		26.94	119.2	800.	4.90	34.47	27.29	88.0	1.634	
589.	5.96	34.39	0.80		27.10	105.3	1000.	4.26	34.52	27.40	78.2	1.803	
787.	4.95	34.47	0.91		27.28	88.7	1200.	3.63	34.56	27.50	69.4	1.952	
982.	4.32	34.52	1.04		27.39	79.2							
1178.	3.65	34.56	1.29		27.49	69.7							
1472.	2.99	34.60	1.75		27.59	60.9							

CROMWELL 11, STATION 13, 19- ON LAT, 154- OW LONG, DEC. 7, 1964, 2200 G.C.T.													
DRY BULB 24.6		WET BULB 21.9		WIND SPEED 18, DIR. 07		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CHY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.01	34.74	4.99		23.16	471.8	0.	25.01	34.74	23.16	471.8	0.000	
10.	25.00	34.74	5.05		23.17	471.9	10.	25.00	34.74	23.17	471.9	0.048	
30.Δ	25.00	34.74			23.17	472.7	20.	25.00	34.74	23.16	472.4	0.095	
50.Δ	25.01	34.78			23.19	470.9	30.	25.00	34.74	23.17	472.7	0.143	
73.	25.02	34.81	4.93		23.21	470.0	50.	25.01	34.78	23.19	470.9	0.238	
97.	24.91	34.89	5.01		23.31	462.0	75.	25.05	34.81	23.21	470.6	0.356	
122.	22.71	35.04	5.12		24.07	390.2	100.	24.67	34.90	23.39	454.1	0.473	
147.	21.78	35.26	5.04		24.50	350.1	150.	21.71	35.27	24.52	347.6	0.675	
172.	21.21	35.29	4.87		24.68	333.8	200.	20.10	35.20	24.91	312.5	0.841	
185.	20.83	35.29	4.61		24.78	324.4	250.	16.51	34.67	25.39	267.1	0.987	
217.	19.01	35.04	4.68		25.07	297.7	300.	12.14	34.22	25.97	211.4	1.108	
243.	16.96	34.73	4.60		25.34	272.5	400.	9.42	34.39	26.59	153.2	1.292	
268.	15.22	34.51	4.62		25.56	250.8	500.	7.64	34.40	26.87	127.1	1.433	
292.	12.64	34.24	4.34		25.90	218.8	600.	6.82	34.44	27.03	113.4	1.555	
389.	9.69	34.39	1.48		26.55	157.6	700.	5.90	34.45	27.16	101.1	1.663	
487.	7.78	34.39	0.80		26.85	129.4	800.	5.13	34.47	27.26	91.4	1.761	
586.	6.96	34.44	0.62		27.00	115.3	1000.	4.43	34.54	27.40	79.1	1.933	
782.	5.22	34.46	0.88		27.24	92.9	1200.	3.75	34.57	27.49	70.2	2.084	
982.	4.50	34.54	1.06		27.39	79.9							
1179.	3.78	34.55	1.22		27.47	72.1							
1480.	2.95	34.60	1.60		27.59	60.5							

TEMPERATURE ERROR TERM AT 300. METERS IS 0.14

CROMWELL 11, STATION 14, 20-30N LAT, 153-57W LONG, DEC. 8, 1964, 0700 G.C.T.													
DRY BULB 24.0		WET BULB 22.1		WIND SPEED 15, DIR. 09		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, CGVR 3	
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.12	34.55	4.84		22.95	488.7	0.	25.12	34.55	22.99	488.7	0.000	
10.	25.11	34.55	4.91		22.99	488.8	10.	25.11	34.55	22.99	488.8	0.049	
50. Δ	25.10	34.68			23.09	480.7	20.	25.11	34.57	23.01	487.3	0.098	
76.	25.09	34.75	4.86		23.15	476.4	30.	25.10	34.60	23.03	485.5	0.147	
102.	23.01	34.90	5.23		23.88	407.7	50.	25.10	34.68	23.09	480.7	0.245	
127.	22.38	35.19	4.93		24.27	370.6	75.	25.11	34.75	23.14	477.2	0.365	
152.	20.90*	35.19	4.69		24.68	332.2	100.	23.18	34.88	23.81	413.5	0.478	
176.	19.98	35.13	4.59		24.89	313.9	150.	21.02	35.20	24.66	334.9	0.666	
192.	19.30	35.05	4.54		25.00	303.2	200.	18.86	34.99	25.07	296.9	0.825	
226.	17.03	34.76	4.52		25.34	271.4	250.	14.79	34.51	25.66	241.4	0.961	
252.	14.62	34.49	4.54		25.68	239.2	300.	12.48	34.29	25.97	212.2	1.075	
278.	13.54	34.39	4.61		25.83	225.2	400.	8.94	34.11	26.45	166.3	1.266	
303.	12.33	34.28	4.69		25.99	210.4	500.	6.81	34.17	26.82	131.6	1.417	
404.	8.84	34.11	3.73		26.47	164.8	600.	5.60	34.28	27.05	109.3	1.538	
505.	6.73	34.18	1.65		26.83	130.1	700.	4.99	34.38	27.20	95.3	1.642	
604.	5.57	34.28	0.99		27.06	108.6	800.	4.67	34.46	27.30	86.3	1.734	
804.	4.66	34.46	0.86		27.31	86.0	1000.	4.07	34.52	27.42	76.3	1.898	
1006.	4.05	34.52	1.09		27.42	76.1	1200.	3.47	34.56	27.51	68.1	2.044	
1199.	3.42	34.55	1.41		27.51	67.9							
1492.	2.85	34.59	1.65		27.59	60.1							

ΔFROM ST DATA

*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 11, STATION 15, 22- IN LAT, 153-55W LONG, DEC. 8, 1964, 1600 G.C.T.				BAR. 17 WEATHER 02			VIS. 7		CLOUD TYPE , COVER			
DRY BULB 24.0 WET BULB 21.8 WIND SPEED 24, DIR. 10												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.ORTH.
0.	24.60	34.84	4.92		23.36	452.8	0.	24.60	34.84	23.36	452.8	0.000
10.	24.63	34.84	4.86		23.35	454.1	10.	24.63	34.84	23.35	454.1	0.046
30.Δ	24.59	34.92			23.43	447.9	20.	24.63	34.87	23.38	452.0	0.091
50.	24.35	34.99	4.88		23.55	436.8	30.	24.59	34.92	23.43	447.9	0.137
76.	23.16	35.07	5.05		23.96	399.6	50.	24.35	34.99	23.55	436.8	0.226
101.	22.24	35.14	4.95		24.28	369.4	75.	23.21	35.07	23.94	400.2	0.331
126.	21.42	35.21	4.80		24.56	343.4	100.	22.27	35.14	24.26	370.5	0.428
152.	20.07	35.11	4.50		24.85	316.7	150.	20.18	35.12	24.83	318.6	0.602
176.	18.97	34.99	4.50		25.04	298.9	200.	17.65	34.80	25.22	282.0	0.753
190.	18.21	34.88	4.43		25.15	289.0	250.	14.01	34.37	25.72	235.3	0.884
225.	16.02	34.59	4.22		25.45	261.1	300.	11.77	34.20	26.03	205.6	0.995
247.	14.20	34.39	4.12		25.69	237.7	400.	8.84	34.13	26.48	163.1	1.181
277.	12.66	34.25	4.09		25.90	218.2	500.	6.57	34.03	26.74	138.8	1.333
302.	11.70	34.20	4.09		26.04	204.6	600.	5.31	34.13	26.97	116.6	1.462
402.	8.79	34.13	3.15		26.49	162.5	700.	4.77	34.28	27.15	99.5	1.571
503.	6.51	34.03	2.48		26.74	138.2	800.	4.54	34.43	27.29	87.1	1.666
603.	5.28	34.13	1.18		26.98	116.0	1000.	4.01	34.50	27.41	77.0	1.832
803.	4.54	34.43	1.22		27.36	86.8	1200.	3.51	34.55	27.50	69.0	1.980
1003.	4.00	34.50	1.13		27.41	76.9						
1196.	3.51	34.55	1.32		27.50	68.9						
1481.	2.90	34.58	1.59		27.58	61.4						

CROMWELL 11, STATION 16, 23-28N LAT, 153-56W LONG, DEC. 9, 1964, 0000 G.C.T.													
DRY BULB 24.0		WET BULB 20.7		WIND SPEED 20, DIR. 09		BAR. 17		WEATHER 01		VIS. 7		CLOUD TYPE , COVER 1	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	CELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.DPTH.	
0.	23.95	35.14	4.92		23.78	412.7	0.	23.95	35.14	23.78	412.7	0.000	
9.	23.92	35.15	4.94		23.80	411.5	10.	23.92	35.15	23.80	411.3	0.041	
30.Δ	23.84	35.17			23.84	408.6	20.	23.88	35.16	23.82	409.9	0.083	
50.Δ	23.80	35.18			23.86	407.5	30.	23.84	35.17	23.84	408.6	0.124	
72.	23.48	35.20	4.92		23.97	398.0	50.	23.80	35.19	23.86	407.5	0.206	
95.	23.08	35.30	4.88		24.16	380.6	75.	23.45	35.22	23.99	396.1	0.308	
118.	22.04	35.25	4.90		24.42	356.7	100.	22.90	35.30	24.21	376.1	0.405	
142.	20.48	35.19	4.79		24.80	321.0	150.	20.16	35.17	24.87	314.4	0.579	
166.	19.45	35.10	4.74		25.00	302.4	200.	17.25	34.78	25.31	274.0	0.727	
180.	18.40	34.95	4.70		25.15	288.2	250.	14.24	34.44	25.72	235.1	0.855	
212.	16.59	34.69	4.62		25.35	266.1	300.	12.13	34.25	26.00	208.8	0.967	
236.	14.95	34.50	4.68		25.62	244.9	400.	9.05	34.11	26.43	168.3	1.158	
260.	13.79	34.40	4.72		25.79	229.0	500.	6.81	34.06	26.73	139.8	1.313	
282.	12.80	34.30	4.79		25.91	217.4	600.	5.72	34.13	26.92	121.4	1.445	
373.	9.87	34.14	3.96		26.32	178.6	700.	4.99	34.25	27.10	104.9	1.559	
466.	7.36	34.06	2.96		26.65	147.3	800.	4.53	34.36	27.24	91.8	1.659	
557.	6.13	34.09	1.81		26.84	129.4	1000.	3.90	34.50	27.42	75.7	1.828	
742.	4.78	34.30	0.78		27.17	98.7	1200.	3.32	34.55	27.52	66.7	1.972	
929.	4.12	34.47	1.02		27.37	79.9							
1117.	3.56	34.53	1.18		27.48	70.4							
1200.**	3.32**	34.55**			27.52	66.7							

CROMWELL 11, STATION 17, 23-33N LAT, 151- 0W LONG, DEC. 9, 1964, 1700 G.C.T.													
DRY BULB 23.7		WET BULB 21.4		WIND SPEED 18, DIR. 11		BAR. 18		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	23.89	35.03			23.72	418.9	0.	23.89	35.03	23.72	418.9	0.000	
9.	23.90	35.02			23.71	420.3	10.	23.90	35.02	23.71	420.4	0.042	
30.Δ	23.90	35.03			23.71	420.4	20.	23.91	35.02	23.71	420.8	0.085	
50.Δ	23.76	35.03			23.76	417.2	30.	23.90	35.03	23.71	420.4	0.127	
71.	23.66	35.04			23.79	414.5	50.	23.76	35.03	23.76	417.2	0.211	
95.	23.12	35.14			24.03	393.2	75.	23.63	35.06	23.81	412.6	0.316	
118.	21.52	35.19			24.52	347.2	100.	22.78	35.16	24.13	383.1	0.416	
142.	20.68	35.18			24.74	326.9	150.	20.55	35.18	24.77	323.8	0.594	
166.	20.21	35.15			24.84	317.9	200.	18.54	34.93	25.10	293.6	0.750	
180.	19.55	35.05			24.94	309.0	250.	15.49	34.94	25.53	254.0	0.889	
211.	17.93	34.86			25.20	284.6	300.	12.35	34.23	25.94	214.8	1.006	
236.	16.39	34.65			25.41	265.2	400.	9.12	34.08	26.40	171.3	1.201	
260.	14.82	34.46			25.61	245.8	500.	6.97	34.07	26.72	141.1	1.359	
284.	13.15	34.29			25.83	225.0	600.	5.67	34.15	26.94	119.7	1.490	
377.	9.77	34.10			26.31	180.0	700.	4.99	34.27	27.12	103.0	1.603	
474.	7.44	34.07			26.65	147.8	800.	4.61	34.38	27.25	91.4	1.701	
569.	5.96	34.11			26.88	125.8	1000.	3.98	34.47	27.39	76.6	1.873	
760.	4.77	34.35			27.21	95.1	1200.	3.46	34.54	27.50	68.8	2.022	
951.	4.12	34.45			27.36	81.6							
1143.	3.61	34.53			27.47	71.2							
1439.	2.97	34.58			27.57	61.9							

ΔFROM BT DATA
**EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA					
CROMWELL 11, STATION 18, 22- ON LAT, 151- 1W LONG, DEC. 10, 1964, 0300 G.C.T.												
DRY BULB 22.9		WET BULB 21.6		WIND SPEED 18, DIR. 15		BAR. 16		WEATHER 53		VIS. 3 CLOUD TYPE 8, COVER 9		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.12	34.80			23.48	442.0	0.	24.12	34.80	23.48	442.0	0.000
10.	24.17	34.86			23.51	439.5	10.	24.17	34.86	23.51	439.5	0.044
20.Δ	24.18	34.86			23.50	440.2	20.	24.18	34.86	23.50	440.2	0.089
30.Δ	24.10	34.90			23.56	435.4	30.	24.10	34.90	23.56	435.4	0.133
51.	23.34*	35.12			23.95	399.0	50.	23.38	35.11	23.93	400.8	0.217
76.	23.04	35.09			24.01	393.9	75.	23.05	35.09	24.01	394.0	0.317
100.	21.98	35.21			24.40	357.3	100.	21.98	35.21	24.40	357.3	0.412
125.	21.14	35.21			24.63	336.1	150.	20.42	35.20	24.82	319.0	0.582
151.	20.39	35.20			24.83	318.3	200.	18.65	34.99	25.12	291.8	0.736
175.	19.48	35.10			24.99	303.5	250.	14.67	34.40	25.60	247.2	0.872
190.	19.00	35.04			25.07	296.5	300.	11.42	34.09	26.01	207.4	0.987
223.	17.40	34.81			25.29	276.2	400.	6.38	34.08	26.52	159.8	1.172
251.	14.57	34.38			25.61	246.1	500.	6.26	34.10	26.83	129.6	1.318
275.	12.88	34.20			25.82	226.1	600.	5.06	34.20	27.06	108.0	1.438
301.	11.37	34.09			26.02	206.7	700.	4.57	34.34	27.22	93.0	1.539
400.	8.38	34.08			26.52	159.8	800.	4.40	34.46	27.34	82.8	1.628
501.	6.24	34.10			26.83	129.3	1000.	3.92	34.52	27.43	74.5	1.788
600.	5.06	34.20			27.06	108.0	1200.	3.49	34.56	27.51	68.0	1.932
800.	4.40	34.46			27.34	82.8	1500.	2.87	34.59	27.59	60.4	2.127
1002.	3.92	34.52			27.43	74.5						
1202.	3.49	34.56			27.51	68.0						
1502.	2.87	34.59			27.59	60.4						

CROMWELL 11, STATION 19, 20-30N LAT, 151- 6W LONG, DEC. 10, 1964, 1300 G.C.T. DRY BULB 24.0 WET BULB 22.1 WIND SPEED 13, DIR. 14 BAR. 16 WEATHER 03 VIS. 7 CLOUD TYPE 3, COVER 6												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.19	34.85			23.49	440.4	0.	24.19	34.85	23.49	440.4	0.000
5.	24.22	34.85			23.49	441.6	10.	24.22	34.85	23.48	441.8	0.044
30.	24.21	34.85			23.49	442.1	20.	24.22	34.84	23.48	442.7	0.089
49.	24.17	34.96			23.58	433.8	30.	24.21	34.85	23.49	442.1	0.134
74.	23.73	35.08			23.80	413.7	50.	24.17	34.97	23.59	433.4	0.222
98.	22.07	35.16			24.34	363.3	75.	23.66	35.08	23.83	411.6	0.328
123.	21.40	35.18			24.54	345.0	100.	22.01	35.17	24.36	361.4	0.426
148.	20.02	35.07			24.83	318.2	150.	19.95	35.07	24.85	316.7	0.596
172.	18.99	35.00			25.04	298.6	200.	16.95	34.72	25.33	271.5	0.745
187.	17.73	34.83			25.23	281.2	250.	13.84	34.38	25.76	231.6	0.871
219.	15.93	34.59			25.47	258.9	300.	10.77	34.12	26.15	193.8	0.979
246.	14.14	34.41			25.72	234.9	400.	7.69	34.07	26.61	150.3	1.152
271.	12.34	34.21			25.93	215.0	500.	5.75	34.11	26.90	122.1	1.290
295.	10.99	34.13			26.12	196.8	600.	5.07	34.27	27.11	102.7	1.403
393.	7.87	34.07			26.58	152.8	700.	4.66	34.38	27.25	90.5	1.501
492.	5.84	34.10			26.88	124.0	800.	4.38	34.46	27.34	82.8	1.589
590.	5.12	34.26			27.10	104.2	1000.	3.84	34.52	27.45	73.2	1.747
787.	4.42	34.45			27.33	83.7	1200.	3.35	34.57	27.53	65.8	1.887
984.	3.88	34.52			27.44	73.8						
1182.	3.42	34.56			27.52	67.0						
1439.	2.78	34.60			27.61	58.2						

CROMWELL 11, STATION 20, 19- 1N LAT, 151- 0W LONG, DEC. 10, 1964, 2200 G.C.T. DRY BULB 24.7 WET BULB 22.0 WIND SPEED 15, DIR. 11 BAR. 16 WEATHER 02 VIS. 7 CLOUD TYPE 4, COVER 3												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.77	34.69			23.20	468.5	0.	24.77	34.69	23.20	468.5	0.000
9.	24.71	34.69			23.22	467.1	10.	24.71	34.69	23.22	467.1	0.047
30.	24.66	34.70			23.24	465.8	20.	24.68	34.69	23.23	466.4	0.094
50.	24.62	34.74			23.28	462.5	30.	24.66	34.70	23.24	465.8	0.141
75.	24.56	34.98			23.48	444.5	50.	24.62	34.74	23.28	462.5	0.235
99.	23.75	35.07			23.79	416.0	75.	24.56	34.98	23.48	444.5	0.349
125.	22.33	35.18			24.28	369.9	100.	23.70	35.07	23.81	414.3	0.457
150.	20.83	35.20			24.71	329.6	150.	20.83	35.20	24.71	329.6	0.644
175.	19.97	35.12			24.88	314.3	200.	18.46	34.94	25.13	291.1	0.801
190.	19.07	35.02			25.04	299.7	250.	13.97	34.35	25.71	236.0	0.934
224.	16.67	34.69			25.37	268.2	300.	10.52	34.23	26.28	181.5	1.039
251.	13.87	34.34			25.72	234.7	400.	7.85	34.23	26.71	140.8	1.202
276.	11.97	34.25			26.03	205.3	500.	6.67	34.32	26.95	118.7	1.333
300.	10.52	34.23			26.28	181.5	600.	5.87	34.40	27.12	103.3	1.445
400.	7.85	34.23			26.71	140.8	700.	5.32	34.46	27.23	93.5	1.544
498.	6.69	34.32			26.95	119.1	800.	4.92	34.49	27.30	86.9	1.635
596.	5.89	34.40			27.11	103.7	1000.	4.18	34.53	27.42	76.9	1.801
797.	4.93	34.49			27.30	87.1	1200.	3.57	34.56	27.50	69.2	1.949
995.	4.20	34.53			27.41	77.1						
1193.	3.61	34.55			27.49	70.1						
1423.	2.99	34.59			27.58	61.3						

ΔFROM 8T DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 11, STATION 21, 17-30N LAT, 150-58W LONG, DEC. 11, 1964, 0800 G.C.T.													
DRY BULB 24.4		WET BULB 21.9		WIND SPEED 10, DIR. 10		BAR. 16		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	24.38	34.96			23.52	437.9	0.	24.38	34.96	23.52	437.9	0.000	
9.	24.36	34.96			23.52	437.6	10.	24.36	34.96	23.53	437.5	0.044	
19.	24.32	34.97			23.54	436.2	20.	24.31	34.97	23.55	435.9	0.088	
50.Δ	24.10	35.02			23.65	427.5	30.	24.25	34.98	23.58	433.5	C.132	
59.	24.05	35.04			23.68	425.0	50.	24.10	35.02	23.65	427.5	0.219	
84.	21.84	35.19			24.43	354.4	75.	22.74	35.14	24.13	382.3	0.321	
109.	20.89	35.21			24.70	329.0	100.	21.18	35.21	24.63	335.8	0.411	
134.	19.67	35.15			24.99	301.9	150.	18.47	34.95	25.14	288.6	0.568	
159.	17.74	34.82			25.22	281.3	200.	13.75	34.33	25.74	231.4	0.699	
184.	15.58	34.53			25.50	254.6	250.	10.87	34.28	26.26	182.7	0.804	
209.	12.78	34.25			25.88	218.8	300.	9.59	34.42	26.59	152.1	0.888	
232.	11.34	34.24			26.14	193.5	400.	8.11	34.46	26.85	127.7	1.029	
259.	10.71	34.31			26.31	177.9	500.	7.19	34.47	27.00	115.1	1.152	
283.	9.96	34.40			26.51	159.1	600.	6.46	34.48	27.10	105.6	1.263	
307.	9.46	34.42			26.61	150.0	700.	5.81	34.49	27.19	97.5	1.366	
504.	7.17	34.47			27.00	114.9	800.	5.29	34.50	27.27	90.7	1.461	
603.	6.44	34.48			27.11	105.3	1000.	4.49	34.54	27.39	80.3	1.634	
704.	5.79	34.49			27.20	97.2	1200.	3.79	34.56	27.48	71.6	1.788	
901.	4.85	34.52			27.33	85.0	1500.	2.94	34.60	27.60	60.2	1.989	
1099.	4.16	34.55			27.43	76.1	2000.	2.10	34.65	27.71	49.0	2.266	
1200.	3.79	34.56			27.48	71.6	2500.	1.75	34.68	27.76	44.6	2.504	
1472.	3.00	34.60	3.56		27.59	61.0	3000.	1.60	34.70	27.80	43.2	2.737	
1942.	2.16	34.65	2.87		27.70	49.7							
2913.	1.65	34.69	1.52		27.77	43.9							
3907.	1.44	34.70	2.27		27.80	43.0							
TEMPERATURE ERROR TERM AT 75. METERS IS 0.17													
TEMPERATURE ERROR TERM AT 3000. METERS IS 0.14													

CROMWELL 11, STATION 22, 16- ON LAT, 150-59W LONG, DEC. 11, 1964, 1700 G.C.T.													
DRY BULB 24.8		WET BULB 22.1		WIND SPEED 19, DIR. 06		BAR. 14		WEATHER 02		VIS. 7		CLGUD TYPE 4, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	25.40	34.04			22.52	533.6	0.	25.40	34.04	22.52	533.6	0.000	
9.Δ	25.41	34.04			22.51	534.3	10.	25.41	34.04	22.52	534.1	0.054	
30.	25.40	34.10			22.56	530.5	20.	25.41	34.07	22.54	532.2	0.107	
50.	25.40	34.04			22.52	535.6	30.	25.40	34.10	22.56	530.5	0.161	
75.	23.12	34.90			23.84	409.7	50.	25.40	34.04	22.52	535.6	0.268	
100.	20.27	35.01			24.72	327.2	75.	23.12	34.90	23.84	409.7	0.387	
126.	17.62	34.69			25.15	286.8	100.	20.27	35.01	24.72	327.2	0.430	
151.	13.96	34.34			25.70	233.8	150.	14.10	34.35	25.68	235.7	0.622	
176.	12.10	34.21			25.98	208.2	200.	11.08	34.22	26.17	189.6	0.729	
191.	11.34	34.19			26.10	196.3	250.	9.16	34.21	26.50	159.3	0.817	
224.	10.45	34.30			26.35	173.5	300.	8.94	34.41	26.69	142.3	0.893	
251.	9.12	34.21			26.50	158.9	400.	7.82	34.47	26.91	122.6	1.027	
277.	9.21	34.36			26.60	149.8	500.	7.31	34.54	27.03	111.7	1.145	
301.	8.92	34.41			26.69	142.0	600.	6.56	34.53	27.13	103.3	1.254	
402.	7.80	34.47			26.91	122.3	700.	5.86	34.52	27.21	95.7	1.354	
502.	7.30	34.54			27.04	111.5	800.	5.24	34.52	27.29	88.9	1.448	
603.	6.54	34.53			27.13	103.0	1000.	4.32	34.55	27.42	77.2	1.616	
803.	5.22	34.52			27.29	88.7	1200.	3.73	34.58	27.50	69.4	1.764	
1003.	4.31	34.55			27.42	77.0							
1203.	3.72	34.58			27.50	69.3							
1484.	2.94	34.61			27.60	59.7							

CROMWELL 11, STATION 23, 14-31N LAT, 151- 0W LONG, DEC. 12, 1964, 0200 G.C.T.													
DRY BULB 26.2		WET BULB 22.6		WIND SPEED 19, DIR. 16		BAR. 11		WEATHER 02		VIS. 7		CLCUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	25.55	34.00			22.44	540.9	0.	25.55	34.00	22.44	540.9	0.000	
9.	25.54	34.00			22.44	541.0	10.	25.53	34.01	22.45	540.3	0.054	
30. Δ	25.32	34.13			22.61	526.0	20.	25.43	34.06	22.53	533.6	0.109	
49.	25.34	34.17			22.63	524.4	30.	25.32	34.13	22.61	526.0	0.162	
74.	22.86	34.83			23.87	407.6	50.	25.27	34.20	22.67	520.4	0.267	
98.	20.69	34.88			24.51	347.3	75.	22.78	34.84	23.90	404.6	0.384	
123.	17.12	34.56			25.17	284.7	100.	20.41	34.86	24.56	341.7	0.478	
148.	14.75	34.44			25.61	242.6	150.	14.47	34.41	25.65	238.7	0.624	
172.	11.87	34.25			26.05	200.9	200.	11.32	34.57	26.40	168.1	0.727	
186.	11.50	34.44			26.27	180.6	250.	10.34	34.62	26.61	148.8	0.807	
219.	11.10	34.66			26.51	158.1	300.	9.74	34.63	26.73	138.9	0.879	
246.	10.40	34.62			26.61	149.6	400.	8.53	34.59	26.89	124.7	1.012	
271.	10.08	34.61			26.65	145.4	500.	7.50	34.55	27.01	113.9	1.133	
295.	9.80	34.63			26.72	139.8	600.	6.70	34.53	27.11	105.4	1.243	
392.	8.62	34.59			26.88	125.7	700.	5.95	34.53	27.21	96.7	1.345	
490.	7.59	34.55			27.00	114.8	800.	5.32	34.53	27.29	89.0	1.439	
587.	6.81	34.53			27.10	106.6	1000.	4.45	34.55	27.40	78.5	1.609	
782.	5.41	34.53			27.28	90.2	1200.	3.74	34.57	27.50	69.9	1.759	
977.	4.54	34.55			27.39	79.6							
1173.	3.82	34.57			27.48	71.0							
1393.	3.21	34.60			27.57	63.1							

ΔFROM ST DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 11, STATION 24, 13- ON LAT, 151- 0W LONG, DEC. 12, 1964, 1200 G.C.T.												
DRY BULB 24.8		WET BULB 22.5		WIND SPEED 15, DIR. 08		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.51	34.05			22.49	536.1	0.	25.51	34.05	22.49	536.1	0.000
10.	25.53	34.05			22.48	537.1	10.	25.53	34.05	22.48	537.1	0.054
20.Δ	25.53	34.05			22.48	537.5	20.	25.53	34.05	22.48	537.5	0.108
30.Δ	25.53	34.05			22.48	537.9	30.	25.53	34.05	22.48	537.9	0.162
52.	22.83	34.62			23.72	421.1	50.	23.15	34.56	23.58	434.0	0.260
77.	20.03	34.74			24.58	339.9	75.	20.27	34.75	24.52	345.3	0.358
103.	15.78	34.47			25.41	260.9	100.	16.28	34.51	25.33	268.8	0.436
127.	12.85	34.32			25.92	212.9	150.	11.50	34.41	26.25	181.8	0.549
154.	11.37	34.44			26.29	177.5	200.	10.51	34.62	26.59	150.3	0.633
179.	10.83	34.57			26.49	159.1	250.	10.11	34.67	26.70	141.0	0.706
194.	10.58	34.61			26.57	152.2	300.	9.50	34.66	26.79	133.1	0.776
228.	10.28	34.66			26.66	144.2	400.	8.53	34.61	26.91	123.2	0.905
256.	10.05	34.67			26.71	140.2	500.	7.54	34.56	27.02	113.3	1.024
282.	9.60	34.65			26.77	134.8	600.	6.64	34.54	27.13	103.5	1.134
307.	9.48	34.66			26.79	132.6	700.	5.95	34.54	27.22	95.6	1.234
408.	8.43	34.60			26.91	122.4	800.	5.41	34.55	27.29	89.0	1.328
511.	7.44	34.56			27.03	112.2	1000.	4.52	34.57	27.41	78.3	1.497
612.	6.54	34.54			27.14	102.4	1200.	3.98	34.58	27.47	72.6	1.650
815.	5.34	34.55			27.30	88.2	1500.	3.14	34.61	27.58	62.3	1.855
1019.	4.45	34.57			27.42	77.5						
1220.	3.94	34.58			27.48	72.2						
1511.	3.12	34.61			27.58	62.0						

CROMWELL 11, STATION 25, 11-31N LAT, 150-49W LONG, DEC. 12, 1964, 2300 G.C.T.													
DRY BULB 26.3		WET BULB 23.0		WIND SPEED 19, DIR. 07		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	25.42	34.08			22.54	531.3	0.	25.42	34.08	22.54	531.3	0.000	
9.	25.42	34.08			22.54	531.7	10.	25.42	34.08	22.54	531.8	0.054	
20. ^Δ	25.40	34.08			22.55	531.5	20.	25.40	34.08	22.55	531.5	0.107	
30. ^Δ	25.30	34.14			22.62	524.7	30.	25.30	34.14	22.62	524.7	0.160	
49.	21.80	34.83			24.16	378.1	50.	21.72	34.85	24.20	374.5	0.251	
74.	19.99	34.99			24.78	320.6	75.	19.84	34.97	24.80	318.0	0.338	
98.	16.06	34.55			25.41	261.0	100.	15.76	34.53	25.46	255.9	0.410	
124.	12.96	34.48			26.02	203.2	150.	12.06	34.72	26.38	169.7	0.518	
148.	12.13	34.71			26.36	171.3	200.	10.91	34.75	26.61	147.9	0.598	
172.	11.42	34.74			26.52	156.8	250.	10.35	34.73	26.70	140.9	0.670	
197.	10.95	34.75			26.61	148.4	300.	9.94	34.72	26.76	135.8	0.740	
221.	10.70	34.74			26.65	145.3	400.	9.33	34.68	26.83	130.8	0.875	
245.	10.41	34.73			26.69	141.6	500.	8.47	34.64	26.94	121.7	1.002	
270.	10.14	34.72			26.73	138.3	600.	7.51	34.59	27.05	112.5	1.120	
293.	9.98	34.72			26.76	136.1	700.	6.62	34.56	27.15	103.3	1.229	
386.	9.43	34.68			26.82	131.9	800.	5.88	34.55	27.23	95.3	1.330	
482.	8.64	34.65			26.92	123.3	1000.	4.85	34.56	27.37	83.0	1.510	
577.	7.73	34.60			27.02	114.7	1200.	4.00	34.57	27.47	73.1	1.668	
767.	6.09	34.55			27.21	97.6	1500.	3.16	34.61	27.58	62.8	1.875	
958.	5.06	34.56			27.34	85.4	2000.	2.28	34.65	27.69	51.8	2.166	
1148.	4.18	34.57			27.45	75.3	2500.	1.89	34.67	27.74	47.0	2.418	
1441.	3.31	34.60			27.56	64.6	3000.	1.63	34.69	27.77	44.1	2.650	
1911.	2.39	34.64	2.23		27.67	53.2							
2388.	1.96	34.67	2.57		27.73	47.7							
2869.	1.72	34.68	2.91		27.76	45.5							
3852.	1.46	34.70	3.57		27.79	43.2							

CROMWELL 11, STATION 26, 10- 4N LAT, 147-58W LONG, DEC. 13, 1964, 2200 G.C.T.													
DRY BULB 26.0		WET BULB 24.0		WIND SPEED 20, DIR. 12		BAR. 11		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0. _Δ	25.58	33.84			22.31	553.3	0.	25.58	33.84	22.31	553.3	0.000	
10. _Δ	25.58	33.84	4.77		22.31	553.7	10.	25.58	33.84	22.31	553.7	0.056	
20. _Δ	25.58	33.84			22.31	554.1	20.	25.58	33.84	22.31	554.1	0.112	
30. _Δ	25.50	33.85			22.34	551.4	30.	25.50	33.85	22.34	551.4	0.167	
40.	17.24	34.56	3.91		25.14	284.8	50.	14.91	34.52	25.64	237.4	0.247	
52.	14.82	34.47	3.17		25.62	239.0	75.	12.73	34.63	26.18	186.7	0.300	
77.	12.65	34.65	0.45		26.21	183.6	100.	11.71	34.75	26.47	159.2	0.344	
102.	11.66	34.76	0.19		26.49	158.0	150.	10.95	34.74	26.60	147.8	0.421	
128.	11.19	34.75	0.34		26.57	151.0	200.	10.35	34.74	26.71	138.9	0.493	
155.	10.90	34.74	0.45		26.61	147.3	250.	9.90	34.71	26.76	134.5	0.562	
180.	10.58	34.73	0.41		26.66	143.1	300.	9.57	34.70	26.81	130.8	0.629	
194.	10.42	34.74	0.45		26.70	139.9	400.	8.81	34.66	26.90	123.5	0.757	
229.	10.03	34.72	0.37		26.75	135.6	500.	7.95	34.61	26.99	116.2	0.878	
256.	9.87	34.71	0.37		26.77	134.2	600.	7.05	34.57	27.10	107.0	0.991	
282.	9.71	34.71	0.39		26.79	132.2	700.	6.17	34.56	27.20	97.5	1.094	
307.	9.52	34.70	0.32		26.82	130.3	800.	5.42	34.55	27.29	89.1	1.189	
408.	8.75	34.66	0.28		26.91	122.9	1000.	4.52	34.57	27.41	78.4	1.358	
511.	7.85	34.60	0.30		27.00	115.4	1200.	3.82	34.59	27.50	70.0	1.508	
612.	6.94	34.57	0.50		27.11	105.9							
815.	5.32	34.55	0.93		27.30	87.9							
1019.	4.46	34.57	1.08		27.42	77.6							
1220.	3.76	34.59	1.49		27.51	69.2							
1455.	3.13	34.62	1.71		27.59	61.0							

TEMPERATURE ERROR TERM AT 50. METERS IS 0.17

Table 1.-Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA				
CROMWELL 11, STATION 27, 11-32N LAT, 148-1W LONG, DEC. 14, 1964, 0600 G.C.T.											
DRY BULB 26.2		WET BULB 23.4		WIND SPEED 22, DIR. 06		BAR. 12		WEATHER 01		VIS. 6 CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA DYN.DPTH.
0. ^Δ	25.65	34.10			22.49	534.6	0.	25.65	34.10	22.49	536.6 0.000
11.	25.64	34.10	4.74		27.49	536.8	10.	25.64	34.10	22.49	536.9 0.054
20. ^Δ	25.58	34.11			22.51	534.6	20.	25.58	34.11	22.51	534.6 0.108
30. ^Δ	25.40	34.13			27.58	528.3	30.	25.40	34.13	22.58	528.3 0.162
52.	16.93	34.52	3.63		25.19	281.0	50.	17.80	34.49	24.95	303.3 0.245
65.	14.83	34.46	1.98		25.61	240.4	75.	13.52	34.55	25.96	207.4 0.310
78.	13.20	34.59	0.74		26.05	198.6	100.	12.31	34.71	26.33	173.1 0.358
102.	12.29	34.72	0.24		26.33	172.4	150.	11.20	34.75	26.57	151.3 0.439
128.	11.67	34.76	0.21		26.48	158.8	200.	10.58	34.74	26.66	143.0 0.514
155.	11.10	34.75	0.31		26.58	150.0	250.	10.17	34.72	26.72	138.3 0.584
179.	10.75	34.75	0.45		26.65	144.5	300.	9.80	34.71	26.78	133.8 0.653
194.	10.63	34.74	0.45		26.66	143.5	400.	9.04	34.67	26.88	126.3 0.784
229.	10.36	34.73	0.43		26.70	140.4	500.	8.18	34.62	26.97	119.0 0.908
256.	10.12	34.72	0.40		26.73	137.7	600.	7.24	34.57	27.07	109.7 1.024
282.	9.92	34.72	0.39		26.77	134.9	700.	6.41	34.55	27.17	100.8 1.130
307.	9.76	34.71	0.37		26.79	133.5	800.	5.71	34.55	27.25	92.9 1.228
408.	8.97	34.67	0.19		26.88	125.7	1000.	4.71	34.57	27.39	80.7 1.404
511.	8.08	34.61	0.30		26.98	118.1	1200.	3.86	34.59	27.50	70.3 1.557
614.	7.11	34.57	0.43		27.09	108.3					
816.	5.61	34.55	0.73		27.27	91.7					
1019.	4.63	34.57	1.04		27.40	79.7					
1203.	3.85	34.59	1.28		27.50	70.2					
1440.	3.27	34.61	1.55		27.57	63.4					

TEMPERATURE ERROR TERM AT 50. METERS IS 0.24

CROMWELL 11, STATION 28, 13- ON LAT, 147-58W LONG, DEC. 14, 1964, 1500 G.C.T.														
DRY BULB 24.8		WET BULB 22.2		WIND SPEED 25, DIR. 08		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.22	33.89	4.89		22.46	539.2	0.	25.22	33.89	22.46	539.2	0.000		
9.	25.26	33.88	4.89		22.44	541.4	10.	25.29	33.88	22.43	542.5	0.054		
30.Δ	25.24	33.85			22.45	540.9	20.	25.42	33.87	22.38	547.5	0.109		
49.	22.99	34.11	4.72		23.28	462.2	30.	25.24	33.89	22.45	540.9	0.164		
74.	16.58	34.51	3.73		25.26	274.6	50.	22.75	34.13	23.37	454.1	0.264		
98.	12.60	34.32	2.46		25.96	207.4	75.	16.36	34.50	25.30	270.3	0.356		
122.	11.84	34.58	0.64		26.31	174.9	100.	12.47	34.34	26.00	203.9	0.415		
148.	11.27	34.67	0.41		26.49	158.7	150.	11.22	34.67	26.50	157.8	0.507		
170.	10.82	34.68	0.37		26.58	150.6	200.	10.56	34.70	26.64	145.6	0.583		
185.	10.66	34.69	0.37		26.61	147.5	250.	10.10	34.69	26.71	139.3	0.655		
219.	10.44	34.70	0.34		26.66	143.7	300.	9.72	34.68	26.77	135.0	0.724		
245.	10.14	34.69	0.37		26.71	140.0	400.	8.91	34.64	26.87	126.5	0.856		
270.	9.94	34.69	0.47		26.74	137.2	500.	8.01	34.57	26.96	119.4	0.980		
293.	9.77	34.68	0.32		26.76	135.6	600.	7.04	34.54	27.07	109.4	1.096		
391.	8.99	34.65	0.37		26.87	127.1	700.	6.23	34.53	27.17	100.4	1.202		
490.	8.11	34.58	0.39		26.95	120.4	800.	5.57	34.53	27.26	92.4	1.299		
587.	7.15	34.54	0.66		27.06	110.7	1000.	4.56	34.55	27.39	79.9	1.474		
783.	5.67	34.53	0.66		27.24	93.6	1200.	3.80	34.58	27.49	70.3	1.626		
979.	4.65	34.55	0.79		27.38	81.1								
1175.	3.92	34.58	1.18		27.48	71.5								
1472.	3.06	34.61	1.65		27.59	61.0								

TEMPERATURE ERROR TERM AT 20. METERS IS 0.10

CROMWELL 11, STATION 29, 14-30N LAT, 147-59W LONG, DEC. 15, 1964, 0000 G.C.T.														
DRY BULB 26.7		WET BULB 22.5		WIND SPEED 21, DIR. 07		BAR. 12		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 1		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.42	34.00	4.77		22.48	537.1	0.	25.42	34.00	22.48	537.1	0.000		
10.	25.42	34.00	4.78		22.48	537.5	10.	25.42	34.00	22.48	537.5	0.054		
30.Δ	25.42	34.00			22.48	538.3	20.	25.42	34.00	22.48	538.0	0.108		
51.	25.39	34.01	4.76		22.50	537.5	30.	25.42	34.00	22.48	538.3	0.162		
77.	21.70	34.70	4.69		24.09	385.8	50.	25.42	34.00	22.48	538.8	0.271		
102.	19.55	34.80	4.67		24.75	324.4	75.	22.03	34.64	23.96	398.6	0.389		
128.	15.71	34.50	3.71		25.45	257.9	100.	19.72	34.81	24.71	328.0	0.481		
153.	12.90*	34.32	2.48		25.91	214.5	150.	13.17	34.33	25.86	219.0	0.618		
177.	11.70	34.47	1.10		26.25	181.8	200.	10.52	34.43	26.44	164.2	0.715		
193.	10.72	34.42	1.46		26.39	168.6	250.	9.98	34.55	26.62	147.8	0.794		
227.	10.20	34.53	0.79		26.57	152.4	300.	9.59	34.60	26.73	139.0	0.866		
255.	9.94	34.55	0.62		26.63	147.2	400.	8.51	34.57	26.88	125.3	0.999		
280.	9.76	34.58	0.50		26.68	142.5	500.	7.61	34.55	27.00	115.2	1.121		
305.	9.55	34.60	0.31		26.74	138.1	600.	6.79	34.53	27.10	106.4	1.233		
406.	8.44	34.57	0.38		26.89	124.7	700.	6.00	34.52	27.19	97.7	1.336		
509.	7.54	34.55	0.37		27.01	114.4	800.	5.32	34.52	27.28	90.0	1.431		
610.	6.71	34.53	0.49		27.11	105.5	1000.	4.44	34.55	27.40	78.9	1.601		
813.	5.24	34.52	0.61		27.29	89.0	1200.	3.79	34.58	27.49	70.3	1.753		
1016.	4.39	34.55	1.04		27.41	78.1								
1217.	3.74	34.58	1.23		27.50	69.7								
1475.	2.97	34.61	1.62		27.60	60.0								

ΔFROM BT DATA
*INTERPOLATED DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 11, STATION 30, 16-04N LAT, 147-59W LONG, DEC. 15, 1964, 1000 G.C.T.													
DRY BULB 24.0		WET BULB 21.8		WIND SPEED 20, DIR. 08		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.23	33.92	4.86		22.48	537.3	0.	25.23	33.92	22.48	537.3	0.000	
10.	25.24	33.92	4.84		22.48	538.0	10.	25.24	33.92	22.48	538.0	0.054	
30. ^b	25.23	33.92			22.48	538.5	20.	25.26	33.88	22.44	541.4	0.109	
52.	24.89	34.58	4.95		23.08	481.9	30.	25.23	33.92	22.48	538.5	0.163	
76.	22.29	34.85	5.31		24.04	390.7	50.	24.97	34.51	23.01	488.9	0.266	
101.	20.62	34.96	5.14		24.59	339.8	75.	22.41	34.85	24.00	394.3	0.378	
128.	19.42	34.98	4.88		24.92	309.1	100.	20.67	34.96	24.57	341.2	0.470	
153.	17.09	34.65	4.42		25.24	278.4	150.	17.39	34.70	25.21	281.9	0.627	
177.	15.07	34.40	4.09		25.51	253.0	200.	12.54	34.25	25.93	213.6	0.752	
192.	13.26	34.25	3.21		25.78	227.6	250.	10.77	34.53	26.47	162.7	0.847	
227.	11.04	34.41	1.63		26.33	175.6	300.	10.14	34.57	26.62	149.6	0.926	
253.	10.76	34.54	0.38		26.48	161.8	400.	8.84	34.58	26.84	129.9	1.067	
279.	10.31	34.55	0.64		26.57	153.9	500.	7.82	34.55	26.97	118.2	1.192	
304.	10.11	34.58	0.73		26.62	148.8	600.	6.97	34.53	27.07	109.0	1.307	
405.	8.77	34.58	0.24		26.85	129.1	700.	6.21	34.52	27.17	100.4	1.413	
508.	7.75	34.55	0.30		26.98	117.5	800.	5.54	34.52	27.25	92.8	1.510	
608.	6.91	34.53	0.34		27.08	108.3	1000.	4.57	34.54	27.38	81.1	1.686	
811.	5.47	34.52	0.60		27.26	92.0	1200.	3.84	34.56	27.47	72.3	1.842	
1013.	4.52	34.54	0.82		27.39	80.5							
1215.	3.79	34.56	1.09		27.48	71.7							
1483.	2.93	34.60	0.88		27.59	60.3							

CROMWELL 11, STATION 31, 17-30N LAT, 147-59W LONG, DEC. 15, 1964, 1800 G.C.T.													
DRY BULB 24.0		WET BULB 21.2		WIND SPEED 22, DIR. 08		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	CELTA	DYN.OPTH.	
0.	24.78	34.03	4.84		22.70	516.4	0.	24.78	34.03	22.70	516.4	0.000	
10.	24.79	34.03	4.94		22.69	517.0	10.	24.79	34.03	22.69	517.0	0.052	
30. ^b	24.77	34.03			22.70	517.2	20.	24.80	34.00	22.67	520.0	0.104	
51.	24.52	34.61	4.94		23.21	469.1	30.	24.77	34.03	22.70	517.2	0.157	
77.	21.99	34.74	5.27		24.04	390.7	50.	24.55	34.58	23.18	472.1	0.256	
102.	20.59	34.93	5.20		24.57	341.2	75.	22.21	34.74	23.98	396.4	0.366	
127.	19.00	34.85	4.68		24.93	308.1	100.	20.69	34.92	24.54	344.5	0.459	
154.	16.76	34.63	4.16		25.31	272.4	150.	17.13	34.67	25.25	277.8	0.616	
178.	14.13	34.34	4.13		25.67	238.0	200.	12.35	34.27	25.97	209.2	0.738	
194.	12.74	34.26	3.12		25.89	216.9	250.	10.59	34.45	26.44	165.7	0.833	
228.	11.10	34.38	1.72		26.29	178.9	300.	9.78	34.50	26.62	148.9	0.912	
256.	10.49	34.46	1.10		26.47	163.1	400.	8.45	34.50	26.84	129.5	1.053	
281.	9.96	34.48	0.92		26.57	153.2	500.	7.28	34.48	26.99	115.5	1.176	
306.	9.74	34.51	0.63		26.63	147.9	600.	6.30	34.46	27.11	104.8	1.288	
408.	8.33	34.50	0.32		26.85	128.2	700.	5.62	34.47	27.20	96.3	1.389	
510.	7.18	34.48	0.40		27.01	114.4	800.	5.11	34.49	27.28	89.2	1.483	
612.	6.20	34.46	0.53		27.12	103.7	1000.	4.38	34.53	27.40	79.1	1.653	
816.	5.05	34.50	0.60		27.29	88.1	1200.	3.82	34.57	27.48	71.2	1.806	
964.	4.42	34.54	0.90		27.40	78.8							
1019.	4.37	34.53	0.75		27.40	79.4							
1193.	3.83	34.57	1.09		27.48	71.3							
1200.**	3.82**	34.57**			27.48	71.2							

CROMWELL 11, STATION 32, 18-55N LAT, 147-56W LONG, DEC. 16, 1964, 0200 G.C.T.												
DRY BULB 23.9		WET BULB 19.2		WIND SPEED 20, DIR. 08		BAR. 14		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.29	34.02	4.93		22.84	503.1	0.	24.29	34.02	22.84	503.1	0.000
9.	24.28	34.02	4.95		22.84	503.1	10.	24.28	34.02	22.84	503.1	0.051
30. ^b	24.34	34.10			22.88	499.9	20.	24.31	34.05	22.86	501.9	0.101
50. ^b	24.38	34.20			22.95	494.6	30.	24.34	34.10	22.88	499.9	0.152
73.	22.55	34.59	5.25		23.77	416.4	50.	24.38	34.20	22.95	494.6	0.252
96.	20.75	34.76	5.08		24.40	357.4	75.	22.38	34.61	23.84	410.3	0.366
121.	19.53	34.78*			24.74	326.0	100.	20.55	34.77	24.46	351.5	0.462
145.	17.76	34.70	4.28		25.12	290.0	150.	17.13	34.63	25.22	280.6	0.621
169.	14.68	34.36	3.24		25.57	247.5	200.	12.43	34.24	25.93	212.9	0.745
183.	13.37	34.26	3.30		25.76	228.8	250.	10.13	34.24	26.36	173.1	0.843
216.	11.82	34.26	2.53		26.07	200.3	300.	8.39	34.11	26.54	155.6	0.926
243.	10.66	34.29	2.34		26.30	178.2	400.	6.99	34.23	26.83	128.8	1.069
266.	9.02	34.12	3.69		26.45	164.3	500.	6.28	34.32	27.00	113.3	1.191
291.	8.55	34.11	3.41		26.51	158.2	600.	5.66	34.39	27.14	101.3	1.300
386.	7.12	34.21	1.65		26.80	131.5	700.	5.16	34.45	27.24	92.0	1.397
484.	6.39	34.31	0.82		26.98	115.6	800.	4.75	34.49	27.32	84.9	1.487
580.	5.77	34.38	0.66		27.11	103.5	1000.	4.01	34.54	27.44	74.2	1.648
771.	4.86	34.48	0.75		27.30	86.7	1200.	3.40	34.57	27.53	65.8	1.789
963.	4.15	34.53	0.92		27.42	76.2						
1103.	3.65	34.56	1.09		27.49	69.1						
1328.	3.10	34.59	1.35		27.57	62.0						

ΔFROM BT DATA
 *INTERPOLATED DATA
 **EXTRAPOLATED DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 11, STATION 33, 20-30N LAT, 147-58N LONG, DEC. 16, 1964, 1200 G.C.T.													
DRY BULB 23.1		WET BULB 19.7		WIND SPEED 20, DIR. 09		BAR. 16		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	DX.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.18	34.06	5.04		22.90	497.1	0.	24.18	34.06	22.90	497.1	0.000	
10.	24.18	34.06	5.06		22.90	497.5	10.	24.18	34.06	22.90	497.5	0.050	
50.Δ	24.14	34.40			23.17	473.3	20.	24.17	34.12	22.95	493.2	0.100	
77.	24.11	34.60	4.92		23.33	459.1	30.	24.16	34.20	23.01	467.7	0.149	
102.	21.61	34.78	5.32		24.18	378.6	50.	24.14	34.40	23.17	473.3	0.246	
128.	20.50	34.84	5.21		24.53	346.3	75.	24.16	34.59	23.30	461.5	0.364	
154.	19.97	35.05	5.12		24.83	318.6	100.	21.83	34.77	24.11	385.2	0.471	
178.	18.81	34.95	4.67		25.05	298.0	150.	20.06	35.02	24.78	322.6	0.649	
193.	18.26	34.95	4.86		25.19	285.3	200.	17.82	34.88	25.24	280.1	0.801	
227.	15.49	34.51	4.60		25.50	255.4	250.	12.86	34.23	25.84	223.0	0.928	
254.	12.45	34.19	4.70		25.89	218.1	300.	10.72	34.11	26.16	193.4	1.033	
280.	11.40	34.14	4.73		26.05	203.0	400.	7.48	34.07	26.64	147.3	1.205	
304.	10.59	34.11	4.62		26.18	191.6	500.	6.05	34.19	26.93	119.9	1.339	
405.	7.34	34.07	2.85		26.66	145.3	600.	5.52	34.35	27.12	103.1	1.452	
509.	5.99	34.21	1.06		26.95	118.0	700.	5.09	34.43	27.23	92.7	1.551	
611.	5.49	34.36	0.69		27.13	101.7	800.	4.69	34.47	27.31	85.8	1.641	
813.	4.64	34.47	0.86		27.32	85.1	1000.	4.01	34.52	27.42	75.7	1.805	
1016.	3.96	34.52	1.17		27.43	75.1	1200.	3.49	34.57	27.51	67.5	1.950	
1219.	3.44	34.57	1.27		27.52	66.8							
1443.	2.8P	34.59	1.50		27.59	60.2							

CROMWELL 11, STATION 34, 22-2N LAT, 147-58N LONG, DEC. 16, 1964, 2100 G.C.T.														
DRY BULB 23.0 WET BULB 18.3 WIND SPEED 18, DIR. 09 BAR. 17 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 3														
DEPTH	TEMP.	SAL.	DX.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	23.80	34.50	5.02		23.34	454.6	0.	23.80	34.50	23.34	454.6	0.000		
10.	23.84	34.50	5.04		23.33	456.1	10.	23.84	34.50	23.33	456.1	0.046		
20.Δ	23.84	34.50			23.33	456.5	20.	23.84	34.50	23.33	456.5	0.092		
30.Δ	23.85	34.50			23.33	457.2	30.	23.85	34.50	23.33	457.2	0.138		
51.	24.34	35.00	4.97		23.56	435.8	50.	24.33	34.97	23.54	437.4	0.228		
76.	23.00	35.15	5.29		24.07	388.4	75.	23.07	35.15	24.05	390.4	0.332		
100.	22.00	35.19	5.21		24.38	359.3	100.	22.00	35.19	24.38	359.3	0.427		
126.	20.81	35.14	4.74		24.67	332.6	150.	19.87	35.08	24.68	313.4	0.596		
151.	19.82	35.08	4.52		24.89	312.6	200.	16.44	34.55	25.32	272.9	0.744		
175.	18.16	34.82	4.31		25.11	291.7	250.	12.96	34.28	25.86	221.4	0.868		
189.	17.27	34.63	4.22		25.18	285.1	300.	10.98	34.15	26.14	195.3	0.974		
224.	14.62	34.43	4.39		25.63	242.7	400.	7.76	34.07	26.60	151.3	1.148		
251.	12.90	34.27	4.63		25.87	220.7	500.	6.05	34.11	26.87	126.0	1.288		
276.	11.92	34.18	4.59		25.99	209.5	600.	5.26	34.23	27.06	108.1	1.407		
300.	10.98	34.15	4.24		26.14	195.3	700.	4.87	34.35	27.20	95.5	1.509		
400.	7.76	34.07	3.11		26.60	151.3	800.	4.64	34.45	27.30	86.4	1.601		
499.	6.06	34.11	1.63		26.86	126.2	1000.	4.04	34.52	27.42	75.9	1.766		
599.	5.26	34.23	0.86		27.06	108.3	1200.	3.49	34.56	27.51	68.1	1.912		
798.	4.65	34.45	0.79		27.30	86.6								
998.	4.05	34.52	1.12		27.42	76.0								
1195.	3.49	34.55	1.20		27.50	68.7								
1469.	2.86	34.59	1.50		27.59	60.1								

CROMWELL 11, STATION 35, 23-30N LAT, 147-56N LONG, DEC. 17, 1964, 0500 G.C.T.														
DRY BULB 22.9 WET BULB 18.6 WIND SPEED 13, DIR. 10 BAR. 15 WEATHER 01 VIS. 7 CLOUD TYPE 1, COVER 1														
DEPTH	TEMP.	SAL.	DX.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
1.	23.13	35.20	5.07		24.07	385.5	0.	23.13	35.20	24.07	385.5	0.000		
9.	23.12	35.20	5.04		24.07	385.6	10.	23.12	35.20	24.07	385.6	0.039		
30.Δ	23.06	35.23			24.11	382.6	20.	23.10	35.21	24.08	384.8	0.078		
50.Δ	22.84	35.30			24.23	372.2	30.	23.06	35.23	24.11	382.6	0.116		
73.	22.74	35.31	5.06		24.26	369.7	50.	22.84	35.30	24.23	372.2	0.192		
98.	21.19	35.27	5.08		24.67	332.0	75.	22.63	35.31	24.29	366.9	0.285		
122.	20.35	35.23	4.92		24.86	314.1	100.	21.11	35.27	24.69	330.2	0.373		
147.	19.58	35.13	4.76		24.99	302.8	150.	19.51	35.12	25.00	301.8	0.532		
170.	18.95	35.05	4.81		25.09	293.9	200.	16.97	34.74	25.34	270.5	0.677		
185.	18.19	34.93	4.73		25.19	284.8	250.	13.46	34.31	25.78	229.0	0.803		
217.	15.50	34.53	4.66		25.52	253.9	300.	11.18	34.13	26.08	200.5	0.911		
244.	13.81	34.34	4.69		25.74	233.3	400.	8.50	34.06	26.48	163.4	1.094		
268.	12.50	34.22	4.59		25.91	217.2	500.	6.45	34.06	26.77	135.4	1.245		
293.	11.42	34.14	4.61		26.05	203.7	600.	5.43	34.14	26.96	117.3	1.373		
390.	8.75	34.06	4.24		26.44	166.8	700.	4.88	34.26	27.12	102.4	1.484		
488.	6.62	34.05	2.30		26.74	138.0	800.	4.57	34.38	27.25	91.0	1.582		
585.	5.54	34.12	1.24		26.94	119.8	1000.	4.05	34.50	27.41	77.5	1.752		
780.	4.63	34.36	0.61		27.23	92.8	1200.	3.51	34.56	27.51	68.2	1.900		
973.	4.13	34.49	0.94		27.39	79.0								
1168.	3.55	34.54	1.22		27.49	69.9								
1463.	2.93	34.58	1.49		27.58	61.6								

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 11, STATION 36, 25- ON LAT, 147-59W LONG, DEC. 17, 1964, 1400 G.C.T.												
DRY BULB 21.5		WET BULB 18.0		WIND SPEED 11, DIR. 14		BAR. 15	WEATHER 01		VIS. 7	CLOUD TYPE 8, COVER 6		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.88	35.27	5.01		24.19	373.6	0.	22.88	35.27	24.19	373.6	0.000
9.	22.88	35.26	5.10		24.19	374.6	10.	22.88	35.26	24.18	374.7	0.038
30. ^Δ	22.88	35.26			24.19	375.4	20.	22.88	35.26	24.18	375.2	0.075
50. ^Δ	22.88	35.26			24.19	376.2	30.	22.88	35.26	24.19	375.4	0.113
74.	22.20	35.34	5.10		24.44	352.9	50.	22.88	35.26	24.19	376.2	0.189
98.	20.93	35.25	5.12		24.72	326.7	75.	22.15	35.34	24.45	351.7	0.281
123.	19.96	35.18	5.04		24.93	307.9	100.	20.85	35.24	24.74	325.0	0.366
148.	18.94	35.06	4.88		25.10	292.2	150.	18.88	35.05	25.11	291.4	0.521
172.	18.04	34.92	4.91		25.22	281.5	200.	16.13	34.63	25.45	259.6	0.660
187.	16.98	34.75	4.84		25.35	269.7	250.	13.13	34.33	25.87	220.7	0.781
220.	14.89	34.49	4.95		25.62	243.9	300.	11.57	34.24	26.10	198.9	0.887
247.	13.26	34.34	5.08		25.85	222.5	400.	9.50	34.12	26.37	174.5	1.075
271.	12.40	34.29	5.02		25.98	210.2	500.	7.13	34.02	26.65	147.5	1.238
296.	11.66	34.25	4.99		26.09	200.1	600.	5.62	34.08	26.89	124.0	1.375
394.	9.65	34.13	4.89		26.35	176.1	700.	4.81	34.21	27.09	105.6	1.491
494.	7.25	34.02	3.41		26.63	149.1	800.	4.42	34.34	27.24	91.8	1.591
592.	5.70	34.07	1.74		26.88	125.6	1000.	3.99	34.49	27.40	77.8	1.762
788.	4.46	34.33	0.62		27.23	93.0	1200.	3.49	34.56	27.51	68.2	1.910
985.	4.03	34.48	1.31		27.39	78.6						
1182.	3.50	34.54	1.18		27.49	69.4						
1430.	2.93	34.58	1.48		27.58	61.4						

CROMWELL 11, STATION 37, 26-28N LAT, 148- ON LONG, DEC. 17, 1964, 2200 G.C.T.													
DRY BULB 22.3		WET BULB 18.8		WIND SPEED 09, DIR. 15		BAR. 14		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH	
0.	22.34	35.28	5.00		24.35	358.2	0.	22.34	35.28	24.35	358.2	0.000	
10.	22.30	35.29	5.10		24.37	356.7	10.	22.30	35.29	24.37	356.7	0.036	
30. _Δ	22.30	35.29			24.37	357.5	20.	22.29	35.29	24.38	356.9	0.072	
50. _Δ	22.28	35.30			24.39	357.0	30.	22.30	35.29	24.37	357.5	0.108	
76.	22.07	35.39	5.05		24.51	345.9	50.	22.28	35.30	24.39	357.0	0.180	
101.	21.48	35.38	4.99		24.67	331.8	75.	22.08	35.39	24.51	346.4	0.269	
127.	19.91	35.15	5.11		24.92	308.9	100.	21.52	35.38	24.66	332.5	0.354	
153.	18.67	35.00	4.91		25.12	290.1	150.	18.82	35.02	25.10	292.3	0.511	
176.	17.16	34.77	4.58		25.32	272.0	200.	15.68	34.57	25.51	254.2	0.649	
192.	16.24	34.64	4.59		25.43	261.3	250.	13.00	34.28	25.85	222.0	0.769	
226.	13.98	34.38	4.79		25.73	233.3	300.	11.57	34.23	26.09	199.8	0.876	
253.	12.90	34.27	4.79		25.87	220.8	400.	9.36	34.13	26.40	171.6	1.063	
278.	11.97	34.21	4.82		26.00	208.2	500.	7.10	34.04	26.67	145.4	1.223	
304.	11.52	34.24	4.97		26.11	198.4	600.	5.43	34.03	26.88	124.9	1.359	
405. _c	9.24	34.12	4.69		26.41	170.4	700.	4.65	34.15	27.07	107.6	1.477	
475. _c	7.63	34.06	4.24		26.61	151.3	800.	4.28	34.29	27.21	93.9	1.579	
614. _c	5.25	34.04	1.94		26.91	122.4	1000.	3.66	34.45	27.40	76.8	1.752	
760. _c	4.43	34.25	0.55		27.17	98.3	1200.	3.29	34.53	27.50	68.0	1.898	
1216.	3.27	34.53	1.20		27.51	67.7	1500.	2.72	34.59	27.61	58.4	2.091	
1519.	2.71	34.59	1.80		27.61	58.6							

CROMWELL 11, STATION 38, 25- 4N LAT, 151- 6W LONG, DEC. 18, 1964, 1600 G.C.T.												
DRY BULB 22.0		WET BULB 20.2		WIND SPEED 15, DIR. 19		BAR. 11		WEATHER 51		VIS. 5		CLOUD TYPE , COVER 9
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.61	34.92			23.72	419.0	0.	23.61	34.92	23.72	419.0	0.000
10. ^Δ	23.63	34.93			23.72	419.2	10.	23.63	34.93	23.72	419.2	0.042
30. ^Δ	23.60	34.93			23.73	419.2	20.	23.63	34.92	23.71	420.4	0.085
50. ^Δ	23.48	35.15			23.93	400.7	30.	23.60	34.93	23.73	419.2	0.127
78.	23.04	35.28			24.15	380.2	50.	23.48	35.15	23.93	400.7	0.209
103.	21.34	35.22			24.59	339.8	75.	23.13	35.28	24.12	382.9	0.308
128.	20.59	35.21			24.78	321.9	100.	21.55	35.23	24.54	344.5	0.400
154.	19.53	35.14			25.01	301.1	150.	19.70	35.16	24.98	304.1	0.563
179.	18.60	34.99			25.13	290.1	200.	17.17	34.77	25.32	273.0	0.709
204.	16.89	34.73			25.35	269.7	250.	14.32	34.40	25.68	239.3	0.838
229.	15.68	34.58			25.52	254.5	300.	11.75	34.19	26.03	206.2	0.950
254.	14.05	34.37			25.71	236.2	400.	9.14	34.08	26.40	171.5	1.141
280.	12.48	34.24			25.93	215.6	500.	6.87	34.03	26.70	143.0	1.299
305.	11.60	34.18			26.05	204.3	600.	5.46	34.10	26.93	120.5	1.432
406.	9.01	34.08			26.42	169.7	700.	4.73	34.22	27.11	103.8	1.546
509.	6.69	34.03			26.72	140.7	800.	4.35	34.33	27.24	91.5	1.645
610.	5.36	34.11			26.95	118.6	1000.	3.94	34.47	27.40	78.1	1.816
813.	4.33	34.35			27.26	90.2	1200.	3.48	34.54	27.49	69.6	1.966
1015.	3.92	34.48			27.40	77.5	1500.	2.89	34.58	27.58	61.4	2.165
1218.	3.44	34.54			27.50	69.0	2000.	2.15	34.63	27.68	51.4	2.452
1521.	2.85	34.58			27.59	61.0	2500.	1.79	34.67	27.74	45.9	2.700
2016.	2.13	34.63	2.02		27.69	51.2	3000.	1.59	34.69	27.78	43.4	2.928
2519.	1.78	34.67	2.44		27.75	45.8	4000.	1.47	34.69	27.79	44.4	3.377
3022.	1.58	34.69	2.90		27.78	43.3						
4050.	1.48	34.69	3.45		27.78	44.7						

6FROM BT DATA
THERMOMETRIC DEPTH

Table 1.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 11, STATION 39, 24-57N LAT, 154- 1W LONG, DEC. 19, 1964, 0900 G.C.T.													
DRY BULB 23.0		WET BULB 21.3		WIND SPEED 18, DIR. 16		BAR. 11		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	23.13	35.21	5.02		24.08	384.8	0.	23.13	35.21	24.08	384.8	0.000	
10.	23.16	35.21	5.02		24.07	386.0	10.	23.16	35.21	24.07	386.0	0.039	
30.Δ	23.06	35.27			24.14	379.7	20.	23.13	35.24	24.10	383.6	0.078	
50.	22.84	35.30	4.97		24.23	372.2	30.	23.06	35.27	24.14	379.7	0.116	
75.	21.18	35.21	4.78		24.62	335.3	50.	22.84	35.30	24.23	372.2	0.192	
100.	20.24	35.17	4.74		24.65	314.9	75.	21.18	35.21	24.62	335.3	0.281	
125.	18.87	34.99	4.65		25.07	294.7	100.	20.24	35.17	24.65	314.9	0.363	
150.	18.10	34.89	4.69		25.18	284.4	150.	18.10	34.89	25.18	284.4	0.514	
174.	16.98	34.74	4.74		25.34	270.0	200.	15.39	34.52	25.54	251.5	0.649	
189.	15.93	34.60	4.69		25.47	257.3	250.	12.86	34.28	25.88	219.4	0.768	
223.	14.39	34.40	4.69		25.66	240.1	300.	11.15	34.17	26.12	197.0	0.873	
249.	12.91	34.28	4.78		25.87	220.1	400.	8.49	34.07	26.49	162.4	1.054	
274.	11.88	34.22	4.76		26.03	205.8	500.	6.32	34.03	26.77	135.5	1.204	
299.	11.18	34.17	4.72		26.12	197.4	600.	5.11	34.09	26.97	116.5	1.332	
397.	8.57	34.07	3.88		26.48	163.4	700.	4.53	34.22	27.13	100.9	1.441	
497.	6.37	34.03	2.55		26.76	136.2	800.	4.26	34.36	27.27	88.8	1.537	
596.	5.14	34.09	1.37		26.96	117.1	1000.	3.81	34.49	27.42	75.2	1.703	
793.	4.28	34.35			27.26	89.5	1200.	3.40	34.56	27.52	67.0	1.847	
992.	3.83	34.49	1.09		27.42	75.5							
1190.	3.42	34.54	1.29		27.50	68.5							
1490.	2.83	34.58	1.54		27.59	60.6							

CROMWELL 11, STATION 40, 25- ON LAT, 157- ON LONG, DEC. 19, 1964, 2300 G.C.T.													
DRY BULB 21.8		WET BULB 19.4		WIND SPEED 12, DIR. 24		BAR. 07		WEATHER 15		VIS. 6		CLOUD TYPE 8, COVER 9	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CYN.DPTH.	
0.	23.24	35.08			23.95	397.2	0.	23.24	35.08	23.95	397.2	0.000	
9.	23.26	35.11			23.96	395.9	10.	23.26	35.11	23.96	396.0	0.040	
30.Δ	23.26	35.11			23.96	396.7	20.	23.27	35.11	23.96	396.6	0.080	
50.Δ	23.24	35.22			24.05	389.0	30.	23.26	35.11	23.96	396.7	0.120	
76.	23.00	35.30			24.18	377.6	50.	23.24	35.22	24.05	389.0	0.199	
101.	22.35	35.30			24.37	360.8	75.	23.02	35.30	24.18	378.1	0.296	
125.	20.34	35.12			24.78	321.9	100.	22.39	35.30	24.36	361.8	0.389	
151.	19.10	34.99			25.01	301.3	150.	19.14	35.00	25.00	301.9	0.556	
176.	17.43	34.79			25.27	276.8	200.	16.12	34.63	25.45	259.7	0.698	
191.	16.54	34.68			25.40	265.0	250.	13.76	34.38	25.78	229.6	0.821	
225.	15.05	34.51			25.60	246.0	300.	11.53	34.19	26.06	202.5	0.930	
252.	13.66	34.37			25.75	228.3	400.	9.04	34.10	26.43	168.6	1.117	
278.	12.56	34.26			25.93	215.6	500.	6.73	34.01	26.70	142.5	1.274	
302.	11.44	34.18			26.08	201.3	600.	5.45	34.08	26.91	121.9	1.408	
403.	8.99	34.10			26.44	167.9	700.	4.67	34.18	27.09	105.5	1.523	
503.	6.67	34.01			26.71	141.8	800.	4.21	34.30	27.23	92.5	1.623	
602.	5.43	34.08			26.92	121.6	1000.	3.81	34.47	27.40	77.1	1.794	
802.	4.20	34.30			27.23	92.3	1200.	3.29	34.53	27.50	67.9	1.941	
1004.	3.81	34.47			27.41	76.9							
1204.	3.28	34.53			27.51	67.7							
1433.	2.76	34.58			27.59	59.4							

CROMWELL 11, STATION 41, 23-30N LAT, 157- 0W LONG, DEC. 20, 1964, 0800 G.C.T.												
DRY BULB 22.6		WET BULB 20.6		WIND SPEED 06, DIR. 21		BAR. 11		WEATHER 15		VIS. 6		CLOUD TYPE 8, COVER 5
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0.	23.35	35.12			23.94	397.3	0.	23.35	35.12	23.94	397.3	0.000
10.	23.41	35.13			23.93	398.7	10.	23.41	35.13	23.93	398.7	0.040
30.Δ	23.41	35.16			23.96	397.3	20.	23.42	35.14	23.94	398.3	0.080
50.Δ	23.41	35.18			23.97	396.6	30.	23.41	35.16	23.96	397.3	0.120
75.Δ	23.20	35.23			24.07	388.2	50.	23.41	35.18	23.97	396.6	0.200
100.	22.93	35.26			24.17	379.5	75.	23.20	35.23	24.07	388.2	0.299
124.	20.72	35.14			24.70	330.2	100.	22.93	35.26	24.17	379.5	0.396
149.	19.62	35.04			24.91	310.4	150.	19.58	35.04	24.92	309.7	0.569
174.	18.26	34.89			25.14	289.0	200.	16.23	34.67	25.46	259.3	0.713
188.	17.04	34.75			25.33	271.1	250.	13.19	34.36	25.88	219.3	0.834
222.	14.92	34.54			25.65	240.9	300.	11.86	34.25	26.05	204.0	0.940
247.	13.33	34.38			25.87	220.9	400.	8.89	34.10	26.45	166.6	1.127
273.	12.35	34.28			25.98	210.1	500.	6.73	34.03	26.72	141.0	1.282
298.	11.91	34.25			26.04	204.7	600.	5.30	34.13	26.97	116.4	1.412
397.	8.97	34.10			26.44	167.4	700.	4.67	34.25	27.14	100.6	1.522
496.	6.80	34.03			26.70	142.0	800.	4.41	34.37	27.26	89.6	1.618
594.	5.35	34.12			26.96	117.5	1000.	3.86	34.51	27.43	74.8	1.785
789.	4.45	34.36			27.25	90.7	1200.	3.31	34.57	27.53	65.3	1.926
986.	3.90	34.50			27.42	75.6						
1168.	3.37	34.55			27.51	67.0						
1424.	2.78	34.58			27.59	59.6						

ΔFROM BT DATA

Table 1.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 11, STATION 42, 22- ON LAT, 157- 2W LONG, DEC. 20, 1964, 1700 G.C.T.												
DRY BULB 23.9		WET BULB 21.5		WIND SPEED 12, DIR. 23		84R. 10		WEATHER 02		VIS. 6		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	QYN.OPTH.
0.	24.30	35.00			23.57	432.7	0.	24.30	35.00	23.57	432.7	0.000
9.	24.32	35.00			23.57	433.6	10.	24.32	35.00	23.57	433.7	0.044
30.Δ	24.32	35.00			23.57	434.4	20.	24.32	35.00	23.57	434.2	0.087
50.Δ	24.32	35.00			23.57	435.2	30.	24.32	35.00	23.57	434.4	0.131
73.	23.63	35.19			23.91	402.9	50.	24.32	35.00	23.57	435.2	0.219
96.	22.67	35.20			24.20	376.6	75.	23.55	35.19	23.94	400.4	0.324
120.	21.90	35.25			24.46	353.1	100.	22.52	35.21	24.25	372.1	0.421
145.	21.54	35.31			24.60	340.1	150.	21.53	35.33	24.62	338.9	0.600
167.	21.06	35.29			24.72	329.7	200.	18.44	34.92	25.12	292.3	0.759
181.	19.67	35.08			24.93	309.9	250.	14.58	34.46	25.67	240.3	0.894
213.	17.69	34.83			25.24	281.2	300.	12.12	34.26	26.01	207.9	1.007
237.	15.67	34.59			25.53	253.8	400.	9.00	34.12	26.45	166.5	1.196
260.	13.83	34.38			25.76	231.2	500.	6.73	34.19	26.84	129.3	1.345
283.	12.76	34.31			25.93	215.9	600.	6.02	34.28	27.00	114.7	1.468
375.	9.82	34.12			26.32	179.3	700.	5.51	34.37	27.14	102.0	1.578
470.	7.12	34.17			26.77	135.8	800.	5.06	34.44	27.25	92.4	1.676
564.	6.25	34.24			26.94	120.0	1000.	4.23	34.50	27.38	80.0	1.850
752.	5.30	34.42			27.20	96.5	1200.	3.60	34.54	27.49	70.5	2.003
943.	4.43	34.48			27.35	83.1						
1136.	3.83	34.53			27.45	73.8						
1437.	3.03	34.58			27.57	62.6						

ΔFROM BT DATA

Table 2.--Original and derived oceanographic data for Townsend Crowwell cruise 12

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROWWELL 12, STATION 1, 20-34°N LAT, 157-15°W LONG, JAN. 6, 1965, 0600 G.C.T.												
DRY BULB 24.0		WET BULB 21.0		WIND SPEED 16, DIR. 19		BAR. 11		WEATHER 02		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.60	34.79			23.32	456.4	0.	24.60	34.79	23.32	456.4	0.000
10.	24.67	34.74			23.31	458.1	10.	24.62	34.78	23.31	458.1	0.046
31.	24.59	34.81			23.34	455.9	20.	24.65	34.79	23.31	459.0	0.092
75.	22.30	35.06			24.20	375.8	30.	24.60	34.81	23.34	456.4	0.138
100.	21.22	35.09			24.52	345.9	50.	23.76	34.92	23.67	425.2	0.227
124.	19.25	34.97			24.95	305.4	75.	22.30	35.06	24.20	375.8	0.328
150.	18.30	34.87			25.12	290.6	100.	21.22	35.09	24.52	345.9	0.419
174.	17.47	34.78			25.25	278.4	150.	18.30	34.87	25.12	290.6	0.579
180.	16.80	34.71			25.36	268.3	200.	15.84	34.60	25.50	255.3	0.717
222.	15.18	34.53			25.59	247.2	250.	12.83	34.30	25.90	217.2	0.836
250.	12.83	34.30			25.90	217.2	300.	10.94	34.19	26.17	191.8	0.939
275.	11.91	34.24			26.04	204.9	400.	8.50	34.13	26.54	157.9	1.116
299.	10.97	34.17			26.17	192.2	500.	6.55	34.19	26.87	126.6	1.259
398.	8.55	34.13			26.53	158.7	600.	5.74	34.29	27.05	109.8	1.379
496.	6.60	34.17			26.86	127.5	700.	5.25	34.37	27.17	98.9	1.484
598.	5.75	34.29			27.04	110.1	800.	4.90	34.43	27.26	91.1	1.580
797.	4.91	34.43			27.26	91.3	1000.	4.15	34.51	27.40	78.1	1.751
968.	4.26	34.50			27.38	79.8	1200.	3.59	34.54	27.48	70.6	1.902
1117.	3.80	34.53			27.45	73.3						
1346.	3.10	34.54			27.51	68.2						

TEMPERATURE ERROR TERM AT 50. METERS IS 0.14
 TEMPERATURE ERROR TERM AT 200. METERS IS 0.32

CROWWELL 12, STATION 2, 19-1°N LAT, 157-0°W LONG, JAN. 6, 1965, 1800 G.C.T.												
DRY BULB 24.2		WET BULB 22.0		WIND SPEED 18, DIR. 08		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 8
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.78	34.50			23.05	482.5	0.	24.78	34.50	23.05	482.5	0.000
11.	24.80	34.50			23.05	483.5	10.	24.80	34.50	23.05	483.4	0.049
50.Δ	24.81	34.51			23.05	484.6	20.	24.81	34.50	23.04	483.9	0.097
75.Δ	24.81	34.52			23.06	484.8	30.	24.81	34.50	23.04	484.3	0.146
102.	24.82	34.53			23.06	485.5	50.	24.81	34.51	23.05	484.6	0.244
128.	24.65	34.74			23.27	466.4	75.	24.81	34.52	23.06	484.8	0.366
154.	23.08*	35.00			23.93	404.4	100.	24.82	34.53	23.06	485.8	0.488
178.	21.39	35.04			24.44	356.8	150.	23.38	34.97	23.82	415.0	0.715
193.	20.39	35.05			24.72	330.7	200.	20.18	35.05	24.77	325.7	0.902
228.	19.29	34.96			24.94	310.5	250.	17.52	34.78	25.24	282.3	1.055
255.	17.09	34.73			25.30	275.9	300.	13.45	34.35	25.81	227.3	1.183
281.	15.35	34.53			25.55	252.5	400.	8.45	34.12	26.54	157.7	1.378
306.	12.84	34.29			25.89	219.5	500.	6.92	34.23	26.84	129.3	1.523
408.	8.37	34.14			26.57	154.6	600.	6.04	34.35	27.05	109.6	1.643
509.	6.86	34.24			26.86	127.5	700.	5.49	34.43	27.19	97.4	1.748
611.	5.96	34.36			27.07	107.8	800.	5.11	34.49	27.28	89.7	1.842
812.	5.07	34.49			27.28	89.1	1000.	4.30	34.52	27.39	79.1	2.013
1016.	4.24	34.52			27.40	78.5	1200.	3.68	34.55	27.48	71.1	2.165
1217.	3.63	34.55			27.49	70.5	1500.	2.98	34.57	27.56	63.3	2.370
1521.	2.95	34.57			27.57	63.0						

CROWWELL 17, STATION 3, 17-30°N LAT, 157-0°W LONG, JAN. 7, 1965, 0500 G.C.T.												
DRY BULB 25.0		WET BULB 22.0		WIND SPEED 13, DIR. 13		BAR. 11		WEATHER 02		VIS. 5		CLOUD TYPE 8, COVER 8
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.40	34.33			23.04	483.8	0.	24.40	34.33	23.04	483.8	0.000
9.	24.43	34.32			23.02	485.8	10.	24.44	34.32	23.02	486.2	0.049
47.	24.51	34.59			23.20	470.1	20.	24.48	34.31	23.00	488.0	0.098
50.Δ	24.50	34.66			23.26	464.9	30.	24.50	34.37	23.03	485.2	0.147
72.	24.48	34.83			23.39	452.9	50.	24.50	34.66	23.26	464.9	0.243
95.	23.23	34.97			23.86	408.5	75.	24.36	34.85	23.44	448.2	0.358
118.	21.64	35.08			24.40	358.3	100.	22.86	35.00	23.99	396.6	0.464
142.	20.92	35.15			24.65	335.3	150.	20.80	35.15	24.68	332.4	0.648
165.	20.40	35.12			24.77	324.9	200.	17.68	34.78	25.20	284.0	0.803
179.	19.47	35.05			24.96	307.0	250.	12.55	34.28	25.94	213.5	0.928
211.	16.59	34.62			25.34	271.1	300.	10.63	34.23	26.27	183.0	1.028
236.	13.87	34.38			25.75	231.4	400.	8.67	34.41	26.73	139.6	1.191
261.	11.73	34.22			26.05	202.7	500.	7.52	34.44	26.92	122.2	1.323
284.	11.05	34.21			26.17	191.8	600.	6.68	34.46	27.06	109.7	1.440
378.	9.00	34.40			26.67	145.4	700.	5.94	34.48	27.17	100.1	1.546
474.	7.78	34.43			26.88	126.2	800.	5.35	34.49	27.25	92.8	1.644
568.	6.94	34.46			27.02	113.3	1000.	4.50	34.52	27.37	81.5	1.820
758.	5.57	34.48			27.22	95.7	1200.	3.84	34.55	27.47	72.9	1.977
950.	4.69	34.51			27.34	84.2						
1140.	4.04	34.55			27.45	74.9						
1433.	3.28	34.57			27.54	66.4						

ΔFROM BT DATA
 *INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB	12, STATION 24.4	WET BULB 20.8	4, 16- ON LAT, 157- OW LONG, JAN. WIND SPEED 12, DIR. 17	7, 1965, 1600 G.C.T. 8AR. 10	WEATHER 02	VIS.	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.73	34.19			22.83	503.4	0.	24.73	34.19	22.83	503.4	0.000
9.	24.75	34.19			22.83	504.3	10.	24.76	34.22	22.84	502.7	0.051
30.Δ	24.88	34.80			23.25	466.9	20.	24.82	34.49	23.03	485.2	0.100
49.	24.90	34.92			23.33	457.6	30.	24.88	34.80	23.25	466.9	0.148
72.	22.94	35.06			24.02	393.1	50.	24.83	34.93	23.36	455.3	0.241
96.	21.22	35.13			24.55	342.9	75.	22.70	35.07	24.10	385.7	0.347
120.	19.99	35.07			24.84	316.5	100.	20.99	35.12	24.61	337.5	0.438
144.	18.87	35.00			25.07	294.7	150.	18.41	34.94	25.14	288.1	0.596
168.	16.60	34.68			25.38	265.6	200.	12.72	34.22	25.86	219.8	0.724
182.	14.78	34.42			25.59	245.6	250.	10.38	34.34	26.39	170.0	0.822
214.	11.54	34.17			26.05	201.8	300.	9.54	34.43	26.60	150.6	0.903
239.	10.76	34.33			26.32	176.9	400.	8.57	34.47	26.79	133.9	1.046
262.	10.02	34.34			26.45	164.1	500.	7.05	34.43	26.98	116.3	1.173
286.	9.65	34.40			26.56	154.1	600.	6.41	34.49	27.12	104.1	1.284
378.	8.97	34.49			26.74	138.3	700.	5.75	34.50	27.21	95.7	1.385
471.	7.30	34.41			26.93	120.6	800.	5.18	34.51	27.28	89.2	1.478
562.	6.68	34.48			27.07	108.1	1000.	4.32	34.53	27.40	78.6	1.648
747.	5.46	34.50			27.25	92.6	1200.	3.65	34.56	27.49	70.2	1.799
931.	4.59	34.52			27.36	82.0						
1116.	3.93	34.55			27.46	73.4						
1397.	3.17	34.58			27.56	64.1						

SALINITY ERROR TERM AT 20. METERS IS 0.06

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB	12, STATION 26.0	WET BULB 22.4	5, 14-30M LAT, 156-59W LONG, JAN. WIND SPEED 14, DIR. 12	8, 1965, 0100 G.C.T. 8AR. 11	WEATHER 01	VIS. 7	CLOUD TYPE 4,	COVER 5				
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.46	34.00			22.47	538.3	0.	25.46	34.00	22.47	538.3	0.000
10.Δ	25.41	34.00			22.48	537.2	10.	25.41	34.00	22.48	537.2	0.054
30.	25.18	34.29			22.77	510.4	20.	25.31	34.12	22.61	525.9	0.108
49.	24.86	34.53			23.05	484.5	30.	25.18	34.29	22.77	510.4	0.160
75.	23.09	35.00			23.93	401.7	50.	24.81	34.55	23.08	481.7	0.260
99.	20.76	34.93			24.53	345.5	75.	23.09	35.00	23.93	401.7	0.371
123.	17.81	34.70			25.11	290.5	100.	20.65	34.92	24.55	343.1	0.465
148.	14.52	34.40			25.63	240.7	150.	14.25	34.38	25.67	236.8	0.611
172.	11.92	34.24			26.03	202.6	200.	11.09	34.34	26.26	181.4	0.716
187.	11.38	34.26			26.15	191.7	250.	10.43	34.57	26.56	154.0	0.801
220.	10.80	34.47			26.42	166.9	300.	9.78	34.57	26.67	144.2	0.876
245.	10.49	34.56			26.54	155.5	400.	8.01	34.51	26.91	122.7	1.011
271.	10.19	34.58			26.61	149.5	500.	7.02	34.48	27.03	111.9	1.129
295.	9.87	34.57			26.66	145.4	600.	6.28	34.48	27.13	102.8	1.238
392.	8.11	34.51			26.89	123.8	700.	5.64	34.50	27.23	94.2	1.337
490.	7.10	34.48			27.02	112.9	800.	5.12	34.52	27.30	87.2	1.429
582.	6.40	34.48			27.11	104.5	1000.	4.31	34.53	27.40	78.2	1.596
776.	5.23	34.52			27.29	88.5	1200.	3.64	34.56	27.49	69.8	1.746
974.	4.40	34.53			27.39	79.3						
1171.	3.74	34.56			27.48	70.8						
1468.	2.95	34.60			27.59	60.4						

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROMWELL DRY BULB	12, STATION 25.1	WET BULB 22.5	6, 13- 04 LAT, 157- OW LONG, JAN. WIND SPEED 14, DIR. 10	8, 1965, 1000 G.C.T. 8AR. 11	WEATHER 02	VIS.	CLOUD TYPE	COVER				
DEPTH	TEMP.	SAL.	UXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	25.54	34.25			22.63	522.6	0.	25.54	34.25	22.63	522.6	0.000
10.Δ	25.56	34.25			22.63	523.6	10.	25.56	34.25	22.63	523.6	0.053
30.Δ	25.55	34.26			22.64	523.3	20.	25.56	34.25	22.63	523.6	0.105
50.Δ	25.54	34.27			22.65	523.1	30.	25.55	34.26	22.64	523.3	0.158
52.	25.53	34.28			22.66	522.2	50.	25.54	34.27	22.65	523.1	0.264
77.	21.60	34.84			24.23	373.1	75.	22.04	34.79	24.07	388.0	0.378
101.	18.20	34.74			25.02	297.9	100.	18.41	34.75	25.00	300.2	0.465
127.	14.58	34.46			25.67	237.0	150.	12.22	34.28	26.01	204.8	0.592
153.	11.98	34.26			26.04	201.7	200.	10.73	34.41	26.38	169.7	0.687
177.	10.80	34.21			26.22	185.0	250.	10.15	34.56	26.60	149.9	0.767
192.	10.79	34.35			26.33	174.9	300.	9.54	34.59	26.73	138.5	0.840
226.	10.43	34.53			26.53	156.2	400.	8.47	34.57	26.89	125.0	0.973
254.	10.10	34.56			26.61	149.1	500.	7.37	34.52	27.01	113.8	1.093
279.	9.85	34.59			26.68	143.2	600.	6.52	34.52	27.13	103.5	1.203
304.	9.48	34.59			26.74	137.7	700.	5.80	34.52	27.22	94.6	1.303
405.	8.43	34.57			26.89	124.5	800.	5.21	34.53	27.30	87.8	1.396
508.	7.29	34.52			27.02	113.0	1000.	4.50	34.55	27.40	79.5	1.565
607.	6.47	34.52			27.13	102.9	1200.	3.82	34.57	27.48	71.3	1.716
808.	5.17	34.53			27.30	87.3	1500.	3.03	34.60	27.58	61.7	1.920
1011.	4.47	34.55			27.40	79.1						
1212.	3.78	34.57			27.49	70.9						
1513.	3.00	34.60			27.59	61.3						

APROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL DRY BULB 25.0		12, STATION WET BULB 23.5		7, 11-27N LAT, 156-55W LONG, JAN. WIND SPEED 11, DIR. 10		8, 1965, 1900 G.C.T. BAR. 10 WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 9		
DEPTH	TEMP.	SAL.	CAY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	26.07	34.43			22.60	525.3	0.	26.07	34.43	22.60	525.3	0.000
10.	26.09	34.43			22.60	526.3	10.	26.09	34.43	22.60	526.3	0.053
50.Δ	26.09	34.43			22.60	527.9	20.	26.11	34.43	22.59	527.2	0.106
65.	26.04	34.43			22.61	527.0	30.	26.11	34.43	22.59	527.7	0.159
75.Δ	25.72	34.47			22.74	515.0	50.	26.09	34.43	22.60	527.9	0.265
81.	19.50	34.78			24.74	323.9	75.	25.72	34.47	22.74	515.0	0.397
101.	16.50	34.58			25.33	268.6	100.	16.32	34.61	25.40	262.1	0.495
125.	13.91	34.33			25.71	232.8	150.	12.14	34.52	26.21	185.6	0.608
151.	12.09	34.53			26.23	183.9	200.	11.24	34.71	26.53	156.3	0.694
176.	11.56	34.70			26.46	162.4	250.	10.54	34.71	26.65	145.5	0.770
191.	11.36	34.71			26.50	158.4	300.	10.03	34.69	26.73	139.2	0.842
224.	10.90	34.71			26.59	151.1	400.	9.14	34.66	26.85	128.9	0.977
251.	10.53	34.71			26.65	145.3	500.	8.19	34.60	26.95	120.2	1.103
277.	10.23	34.70			26.70	141.5	600.	7.22	34.56	27.06	110.4	1.219
302.	10.01	34.69			26.73	139.0	700.	6.41	34.54	27.16	101.7	1.326
402.	9.12	34.66			26.85	128.7	800.	5.76	34.54	27.24	94.3	1.425
503.	8.16	34.60			26.96	119.9	1000.	4.83	34.56	27.37	82.8	1.604
603.	7.19	34.56			27.07	110.1	1200.	4.03	34.57	27.46	73.9	1.763
803.	5.74	34.54			27.24	94.1	1500.	3.22	34.60	27.57	63.9	1.973
1004.	4.81	34.56			27.37	82.6						
1203.	4.02	34.57			27.46	73.8						
1503.	3.21	34.60			27.57	63.8						

TEMPERATURE ERROR TERM AT 100. METERS IS 0.21

CROMWELL DRY BULB 24.5					12, STATION WET BULB 23.5	7A, 10- ON LAT, 154- ON LONG, JAN.	8, 1965, 1700 G.C.T. WIND SPEED 18, DIR. 07 BAR. 09	WEATHER 21	VIS. 6	CLOUD TYPE 8, COVER 8				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.84	34.48	4.72	0.41	22.71	514.9	0.	25.84	34.48	22.71	514.9	0.000		
11.	25.85	34.48	5.03	0.33	22.71	515.6	10.	25.85	34.48	22.71	515.6	0.052		
30.Δ	25.86	34.49			22.71	515.9	20.	25.86	34.48	22.71	515.8	0.104		
51.	25.87	34.50	4.97	0.30	22.72	516.4	30.	25.86	34.49	22.71	515.9	0.156		
75.	20.21	34.79	4.84	0.41	24.57	340.7	50.	25.92	34.50	22.70	518.1	0.260		
101.	15.90	34.53	4.64	0.22	25.43	259.0	75.	20.21	34.79	24.57	340.7	0.368		
125.	12.99	34.42	2.06	1.86	25.96	208.2	100.	16.04	34.54	25.41	261.0	0.444		
150.	12.00	34.59	0.54	2.13	26.29	177.8	150.	12.00	34.59	26.29	177.8	0.554		
175.	11.54	34.70	0.26	2.28	26.46	162.0	200.	10.90	34.72	26.60	149.5	0.637		
189.	11.11	34.72	0.19	2.59	26.56	153.2	250.	10.29	34.71	26.70	141.2	0.710		
224.	10.61	34.72	0.37	2.40	26.65	145.3	300.	9.94	34.70	26.75	137.1	0.780		
250.	10.29	34.71	0.41	2.60	26.70	141.2	400.	9.23	34.66	26.83	130.5	0.915		
274.	10.11	34.71	0.40	2.46	26.73	138.6	500.	8.29	34.61	26.94	121.2	1.042		
300.	9.94	34.70	0.44	2.60	26.75	137.1	600.	7.12	34.55	27.07	109.8	1.159		
398.	9.25	34.66	0.40	3.09	26.83	130.7	700.	6.30	34.53	27.17	100.8	1.266		
499.	8.30	34.61	0.21	2.86	26.94	121.3	800.	5.68	34.54	27.25	93.2	1.364		
598.	7.14	34.55	0.36	3.00	27.07	110.0	1000.	4.68	34.56	27.38	80.9	1.540		
802.	5.67	34.54	0.62	3.16	27.25	93.1	1200.	3.91	34.58	27.48	71.7	1.694		
996.	4.70	34.56	0.98	3.33	27.38	81.1								
1197.	3.92	34.58	1.23	3.04	27.48	71.7								
1496.	3.18	34.60	1.54	2.91	27.57	63.4								

CROMWELL DRY BULB 25.0					12, STATION WET BULB 22.5	8, 11-30N LAT, 154- 1W LONG, JAN.	10, 1965, 0100 G.C.T. WIND SPEED 22, DIR. 08 BAR. 08	WEATHER 02	VIS. 6	CLOUD TYPE 8, COVER 7				
DEPTH	TEMP.	SAL.	CXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.		
0.	25.10	34.05	4.83		22.62	524.2	0.	25.10	34.05	22.62	524.2	0.000		
9.	25.08	34.04	4.82	0.29	22.61	524.6	10.	25.08	34.04	22.61	524.7	0.053		
30.Δ	25.06	34.05			22.63	524.2	20.	25.07	34.04	22.62	524.5	0.106		
47.	25.05	34.06	4.84	0.34	22.64	523.8	30.	25.06	34.05	22.63	524.2	0.158		
50.Δ	25.00	34.09			22.68	520.3	50.	25.00	34.09	22.68	520.3	0.264		
72.	21.06	34.90	5.11	0.33	24.42	354.4	75.	20.72	34.91	24.52	344.8	0.373		
97.	18.40	34.73	4.12	0.66	24.99	301.3	100.	17.93	34.69	25.07	293.3	0.453		
122.	14.58	34.42	3.59	0.87	25.64	239.8	150.	12.08	34.36	26.09	196.4	0.576		
147.	12.23	34.34	2.56	1.89	26.05	200.3	200.	10.82	34.59	26.51	157.9	0.666		
171.	11.40	34.50	1.15	2.02	26.33	174.1	250.	10.13	34.65	26.68	142.7	0.741		
185.	11.12	34.56	0.77	2.47	26.43	165.0	300.	9.58	34.65	26.77	134.9	0.811		
217.	10.53	34.61	0.51	2.48	26.58	151.9	400.	8.62	34.61	26.90	124.2	0.942		
244.	10.22	34.65	0.41	2.64	26.66	144.3	500.	7.62	34.57	27.01	114.3	1.063		
267.	9.88	34.65	0.28	2.62	26.72	139.1	600.	6.72	34.55	27.12	104.2	1.173		
291.	9.66	34.65	0.38	2.11	26.76	135.9	700.	6.01	34.54	27.21	96.5	1.274		
387.	8.75	34.62	0.30	2.51	26.88	125.5	800.	5.50	34.54	27.28	90.5	1.369		
484.	7.78	34.57	0.41	2.64	26.99	116.1	1000.	4.76	34.57	27.39	81.0	1.543		
580.	6.88	34.55	0.60	2.62	27.10	106.0	1200.	4.01	34.59	27.48	72.4	1.698		
773.	5.61	34.54	0.68	3.02	27.26	91.9								
967.	4.90	34.57	1.05	3.00	27.37	82.7								
1162.	4.09	34.58	1.44	2.90	27.46	73.5								
1458.	3.19	34.60	1.66	3.04	27.57	63.3								

FROM BT DATA

Table 2.-Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 12, STATION 9, 13- 5N LAT, 154- 6W LONG, JAN. 10, 1965, 1100 G.C.T.													
DRY BULB 24.3		WET BULB 22.0		WIND SPEED 21, DIR. 09		BAR. 10		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.84	34.14	4.97		22.76	510.2	0.	24.84	34.14	22.76	510.2	0.000	
11. 8	24.85	34.14	5.14	0.56	22.76	510.9	10.	24.85	34.14	22.76	510.8	0.051	
30.8	24.85	34.13			22.75	512.3	20.	24.85	34.14	22.76	511.6	0.103	
51.	24.85	34.13	4.97	0.31	22.75	513.1	30.	24.85	34.13	22.75	512.3	0.154	
77.	21.37	34.83	5.13	0.33	24.28	367.8	50.	24.88	34.12	22.74	514.3	0.258	
102.	20.17	35.07	4.77	0.38	24.79	320.4	75.	21.67	34.77	24.16	379.8	0.371	
128.	17.28	34.75	4.54	0.76	25.27	274.7	100.	20.26	35.07	24.77	322.6	0.459	
153.	12.71	34.27	2.90	1.70	25.90	214.6	150.	13.22	34.31	25.84	221.0	0.596	
177.	11.45	34.44	1.36	2.22	26.28	179.5	200.	11.00	34.56	26.45	163.4	0.693	
192.	11.10	34.52	1.05	2.11	26.40	167.8	250.	10.40	34.65	26.63	147.3	0.771	
226.	10.75	34.64	0.32	2.24	26.56	153.6	300.	9.78	34.63	26.72	139.5	0.843	
253.	10.35	34.65	0.23	2.36	26.64	146.6	400.	8.53	34.58	26.80	125.1	0.977	
278.	9.97	34.64	0.19	2.35	26.70	141.5	500.	7.66	34.55	26.99	115.9	1.099	
303.	9.76	34.63	0.15	2.80	26.72	139.3	600.	6.71	34.53	27.11	105.3	1.210	
402.	8.50	34.58	0.38	2.26	26.89	124.8	700.	5.98	34.53	27.20	97.1	1.313	
502.	7.64	34.55	0.41	2.64	26.99	115.8	800.	5.42	34.53	27.27	90.5	1.407	
602.	6.69	34.53	0.58	2.84	27.11	105.1	1000.	4.58	34.55	27.39	80.4	1.580	
800.	5.42	34.53	0.62	2.94	27.27	90.5	1200.	3.91	34.57	27.48	72.4	1.735	
1000.	4.58	34.55	1.01	3.08	27.39	80.4							
1200.	3.91	34.57	1.39	2.83	27.48	72.4							
1499.	3.10	34.59	1.80	2.86	27.57	63.2							

CROMWELL 12, STATION 10, 14-35N LAT, 154-10W LONG, JAN. 10, 1965, 2000 G.C.T.													
DRY BULB 24.0		WET BULB 22.5		WIND SPEED 14, DIR. 10		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH	
0.	25.14	34.15	4.77		22.68	518.1	0.	25.14	34.15	22.68	518.1	0.000	
10.	25.16	34.15	4.96	0.63	22.67	519.1	10.	25.16	34.15	22.67	519.1	0.052	
49.	25.13	34.16	4.90	0.29	22.69	519.0	20.	25.16	34.15	22.67	519.8	0.105	
75.	25.08	34.22	4.95	0.37	22.75	514.2	30.	25.16	34.15	22.67	520.0	0.157	
99.	22.12	35.07	5.02	0.71	24.26	371.1	50.	25.16	34.15	22.68	520.3	0.262	
122.	20.21	35.07	4.54	0.36	24.78	322.1	75.	25.08	34.22	22.75	514.2	0.392	
147.	17.74	34.79	4.33	0.63	25.19	283.1	100.	22.03	35.08	24.29	368.0	0.503	
171.	15.03	34.46	3.82	0.99	25.57	247.6	150.	17.43	34.75	25.24	279.0	0.686	
185.	13.11	34.30	3.74		25.85	220.9	200.	11.96	34.27	26.05	201.7	0.787	
218.	11.30	34.34	2.05	1.84	26.23	185.1	250.	10.85	34.52	26.45	164.6	0.880	
243.	10.94	34.49	1.42	2.23	26.41	168.4	300.	10.03	34.60	26.66	145.8	0.958	
267.	10.62	34.58	0.58	2.25	26.54	156.7	400.	8.77	34.59	26.85	128.3	1.096	
291.	10.18	34.60	1.10	2.51	26.63	148.3	500.	8.00	34.58	26.96	119.2	1.221	
386.	8.89	34.59	0.90	2.87	26.83	129.9	600.	7.07	34.54	27.07	109.6	1.337	
483.	8.15	34.58	0.58	2.87	26.94	120.9	700.	6.20	34.51	27.16	101.0	1.443	
578.	7.28	34.55	0.76	3.00	27.05	111.7	800.	5.48	34.50	27.24	93.4	1.541	
770.	5.66	34.50	0.50	2.60	27.22	95.5	1000.	4.57	34.54	27.38	81.3	1.718	
963.	4.72	34.53	0.43	3.09	27.36	83.3	1200.	3.81	34.56	27.48	71.6	1.873	
1155.	4.00	34.56	1.70	3.47	27.46	73.8							
1448.	3.06	34.59	1.24	2.42	27.57	62.3							

CROMWELL 12, STATION 11, 16- 9N LAT, 154- 4W LONG, JAN. 11, 1965, 0400 G.C.T.													
DRY BULB 24.1		WET BULB 22.0		WIND SPEED 15, DIR. 09		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	25.15	34.16	4.88		22.68	517.7	0.	25.15	34.16	22.68	517.7	0.000	
11.	25.15	34.16	5.01	0.91	22.68	518.1	10.	25.15	34.16	22.68	518.1	0.052	
50.8	25.15	34.16			22.68	519.6	20.	25.15	34.16	22.68	518.5	0.104	
61.	25.15	34.16	4.85	0.31	22.68	520.1	30.	25.15	34.16	22.68	518.9	0.157	
75.8	25.06	34.22			22.76	513.7	50.	25.15	34.16	22.68	519.6	0.261	
90.	24.98	34.37	4.70	0.27	22.86	504.7	75.	25.06	34.22	22.76	513.7	0.391	
100.	23.00	34.86	5.25	0.30	23.85	410.3	100.	23.00	34.86	23.85	410.3	0.508	
127.	20.27	34.76	4.84	0.47	24.53	346.2	150.	18.07	34.68	25.03	298.9	0.686	
153.	17.80*	34.67	4.27	0.69	25.09	293.4	200.	13.39	34.33	25.81	224.6	0.818	
176.	15.83	34.53	4.01	0.82	25.44	259.8	250.	10.56	34.34	26.36	173.2	0.919	
191.	14.26	34.38	3.61	1.16	25.67	238.1	300.	9.33	34.35	26.58	152.7	1.001	
226.	11.42	34.28	2.32	1.93	26.16	191.9	400.	7.38	34.31	26.84	128.1	1.142	
252.	10.50	34.34	1.80	2.17	26.37	172.0	500.	6.02	34.29	27.01	112.5	1.264	
279.	9.38	34.25	2.14	1.73	26.49	160.6	600.	5.85	34.44	27.15	100.3	1.371	
303.	9.34	34.37	1.38	2.12	26.59	151.6	700.	5.37	34.49	27.25	91.5	1.468	
403.	7.30	34.30	1.20	2.44	26.85	127.7	800.	4.78	34.49	27.32	85.2	1.558	
505.	5.98	34.29	0.90	2.69	27.02	111.9	1000.	4.13	34.53	27.42	76.3	1.721	
606.	5.85	34.45	0.68		27.16	99.7	1200.	3.54	34.57	27.51	68.0	1.867	
807.	4.74	34.49	0.88	2.51	27.32	84.8	1500.	2.93	34.60	27.59	60.4	2.062	
1007.	4.11	34.53	1.20	2.38	27.42	76.1							
1208.	3.52	34.57	1.24	2.89	27.51	67.6							
1509.	2.91	34.60	1.54	2.71	27.60	60.2							

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 12, STATION 12, 17-32N LAT, 154- 3W LONG, JAN. 11, 1965, 1300 G.C.T.												
DRY BULB 24.3		WET BULB 22.4		WIND SPEED 18, DIR. 09		BAR. 14		WEATHER 02		VIS. 6 CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	QXY.	PQ4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	25.01	34.18	4.94		22.74	512.2	0.	25.01	34.18	22.74	512.2	0.000
10.	25.00	34.18	5.00	0.26	22.74	512.3	10.	25.00	34.18	22.74	512.3	0.052
50.	24.99	34.18	4.76	0.70	22.75	513.5	20.	24.99	34.18	22.75	512.4	0.103
76.	25.03	34.18	4.89	0.26	22.73	515.7	30.	24.99	34.18	22.75	512.7	0.155
101.	21.85	34.66	5.14	0.37	24.02	393.6	50.	24.99	34.18	22.75	513.5	0.258
126.	20.41	35.06	4.68	0.31	24.72	328.1	75.	25.06	34.18	22.72	516.9	0.388
152.	18.07*	34.73	4.09	0.70	25.08	293.7	100.	21.99	34.64	23.97	399.0	0.503
176.	15.42	34.47	3.59	1.11	25.49	255.3	150.	18.21	34.77	25.06	295.8	0.678
191.	14.62	34.39	3.60	1.00	25.60	244.7	200.	13.94	34.32	25.70	235.9	0.812
225.	12.18	34.21	4.05	1.38	25.96	210.8	250.	11.35	34.31	26.19	189.0	0.920
252.	11.30	34.32	2.02	1.81	26.21	187.4	300.	9.60	34.30	26.49	161.1	1.008
278.	10.22	34.29	2.28	2.04	26.38	171.5	400.	8.46	34.44	26.78	134.8	1.157
303.	9.53	34.30	2.08	1.84	26.50	159.8	500.	7.54	34.44	26.92	122.2	1.287
403.	8.45	34.44	0.74	2.26	26.79	134.4	600.	6.62	34.47	27.07	108.6	1.403
504.	7.50	34.44	0.49	2.57	26.93	121.8	700.	5.86	34.48	27.18	98.6	1.508
604.	6.58	34.47	0.53	3.00	27.08	108.0	800.	5.24	34.49	27.26	91.1	1.604
804.	5.22	34.49	0.82	2.55	27.27	90.9	1000.	4.36	34.52	27.39	79.9	1.777
1005.	4.34	34.52	0.99	2.68	27.39	79.6	1200.	3.71	34.55	27.48	71.5	1.930
1205.	3.70	34.55	1.18	3.11	27.48	71.3	1500.	2.89	34.59	27.59	60.7	2.131
1506.	2.88	34.59	1.65	2.24	27.59	60.5						

CROMWELL 12, STATION 13, 18-56N LAT, 154- 0W LONG, JAN. 11, 1965, 2100 G.C.T.													
DRY BULB 23.5		WET BULB 21.8		WIND SPEED 11, DIR. 06		BAR. 15		WEATHER 15		VIS. 7		CLOUD TYPE 8, COVER 8	
DEPTH	TEMP.	SAL.	CXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	24.56	34.71	4.88		23.28	461.0	0.	24.56	34.71	23.28	461.0	0.000	
9.	24.57	34.72	4.92	0.31	23.28	460.9	10.	24.57	34.72	23.28	461.0	0.046	
46.	24.57	34.72	4.78	0.37	23.28	462.4	20.	24.57	34.72	23.28	461.2	0.093	
69.	24.58	34.72	4.95	0.29	23.28	463.6	30.	24.57	34.72	23.28	461.6	0.139	
75.6	24.52	34.93			23.45	447.0	50.	24.59	34.67	23.24	466.3	0.233	
92.	24.36	35.01	4.81	0.28	23.56	437.3	75.	24.52	34.93	23.45	447.0	0.348	
114.	22.82	34.97	4.80	0.24	23.98	397.9	100.	23.85	34.99	23.70	424.5	0.458	
138.	21.90*	35.20	5.02	0.20	24.42	357.3	150.	21.49	35.23	24.55	344.9	0.651	
160.	21.11	35.21	4.65	0.38	24.64	336.6	200.	19.02	34.93	24.98	305.2	0.815	
174.	20.39	35.12	4.54	0.31	24.77	324.9	250.	14.32	34.41	25.68	238.6	0.952	
205.	18.69	34.89	4.27	1.12	25.03	300.3	300.	11.57	34.18	26.05	203.7	1.064	
229.	16.36	34.66	4.32	0.64	25.42	263.6	400.	7.95	34.13	26.62	149.7	1.242	
253.	14.06	34.38	4.50	0.80	25.71	235.7	500.	6.35	34.19	26.89	124.0	1.380	
284.	12.36	34.22	4.08	1.15	25.93	214.9	600.	5.74	34.29	27.05	109.7	1.498	
368.	8.85	34.13	3.04	1.60	26.48	162.8	700.	5.31	34.40	27.18	97.8	1.603	
460.	6.78	34.16	1.64	2.24	26.81	131.6	800.	4.94	34.47	27.28	89.0	1.698	
551.	6.01	34.24	0.98	2.49	26.97	116.6	1000.	4.24	34.52	27.40	78.2	1.867	
737.	5.19	34.43	0.72	3.05	27.22	94.2	1200.	3.65	34.56	27.49	70.2	2.017	
922.	4.49	34.51	0.86	2.29	27.37	81.4							
1110.	3.92	34.53	1.06	2.84	27.44	74.7							
1395.	3.18	34.57	1.39	2.53	27.55	64.9							

CROMWELL 12, STATION 14, 20-30N LAT, 154- 1W LONG, JAN. 12, 1965, 0600 G.C.T.												
DRY BULB 24.0		WET BULB 21.4		WIND SPEED 16, DIR. 12		BAR. 14		WEATHER 01		VIS.		CLOUD TYPE , COVER
DEPTH	TEMP.	SAL.	CXY.	PN4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.54	34.59	4.89		23.19	469.1	0.	24.54	34.59	23.19	469.1	0.000
9.	24.58	34.59	5.06	0.43	23.18	470.6	10.	24.58	34.59	23.18	470.5	0.047
46.	24.57	34.76	4.92	0.49	23.27	463.8	20.	24.59	34.61	23.19	469.6	0.095
70.	24.62	34.79	5.09	0.28	23.32	459.7	30.	24.59	34.64	23.22	468.0	0.142
93.	23.92	35.02	4.91		23.70	424.1	50.	24.60	34.71	23.26	464.3	0.236
116.	22.84	35.03	4.88	0.27	24.02	394.2	75.	24.52	34.84	23.39	453.1	0.351
140.	21.49	35.08	4.80	0.32	24.44	355.2	100.	23.62	35.03	23.80	415.1	0.461
162.	20.51	35.10	4.57	0.36	24.72	329.0	150.	21.05	35.10	24.58	342.3	0.652
176.	19.75	35.02	4.43	0.48	24.86	316.0	200.	18.30	34.85	25.10	294.0	0.812
207.	17.84	34.77	4.24	0.67	25.17	287.4	250.	15.04	34.68	25.58	248.6	0.949
232.	16.02	34.58	4.28	0.72	25.44	267.0	300.	12.11	34.24	26.00	208.8	1.064
256.	14.72	34.45	4.44	0.80	25.63	244.3	400.	9.39	34.27	26.50	161.7	1.251
279.	13.13	34.30	4.31	1.22	25.84	223.7	500.	7.68	34.31	26.80	133.7	1.400
372.	9.92	34.25	2.55	2.78	26.40	171.4	600.	6.04	34.32	27.03	112.0	1.524
466.	8.38	34.32	1.54	2.02	26.70	143.3	700.	5.23	34.38	27.17	98.4	1.630
559.	6.53	34.30	1.22	2.36	26.95	119.3	800.	4.79	34.44	27.27	89.4	1.725
746.	5.04	34.41	0.82	2.53	27.22	93.9	1000.	4.10	34.51	27.41	77.3	1.894
935.	4.32	34.49	1.06	2.63	27.37	80.9	1200.	3.49	34.55	27.51	68.4	2.042
1124.	3.71	34.54	1.35	2.53	27.47	71.5						
1414.	2.97	34.57	1.65	2.96	27.57	62.5						

TEMPERATURE ERROR TEMP AT 300. METERS IS 0.10

Table 2.--Continued

ORIGINAL DATA						DERIVED DATA		INTERPOLATED DATA				
CROWWELL 12, STATION 15, 22- DRY BULB 23.0		WET BULB 20.8		IN LAT, 153-59W LONG, JAN. 12, 1965, 1600 G.C.T.		WIND SPEED 17, DIR. 13	BAR. 14	WEATHER 02	VIS. 6	CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.54	34.53	4.88		23.18	469.8	0.	24.54	34.58	23.18	469.8	0.000
10.	24.60	34.58	5.06	0.33	23.17	471.9	10.	24.60	34.58	23.17	471.9	0.047
50.	24.38	34.63	4.88	0.29	23.27	463.6	20.	24.59	34.56	23.15	473.6	0.095
76.	24.13	35.01	5.06	0.26	23.63	430.1	30.	24.55	34.56	23.17	472.7	0.143
100.	23.69	35.10	4.92	0.22	23.83	412.1	50.	24.38	34.63	23.27	463.6	0.237
125.	22.88	35.27	4.88	0.26	24.19	378.4	75.	24.14	35.00	23.62	431.5	0.350
152.	21.32	35.15	4.72	0.29	24.54	346.1	100.	23.69	35.10	23.83	412.1	0.456
175.	19.89	35.07	4.46	0.40	24.86	315.9	150.	21.45	35.16	24.51	348.4	0.648
190.	19.27	35.01	4.42	0.80	24.99	304.1	200.	18.68	34.95	25.08	295.9	0.810
223.	17.24	34.76	4.44	0.48	25.29	276.1	250.	15.29	34.51	25.55	251.9	0.948
251.	15.22	34.50	4.38	2.18	25.56	251.0	300.	12.24	34.22	25.96	212.8	1.065
277.	13.53	34.33	4.42	2.44	25.79	229.3	400.	9.16	34.09	26.40	171.2	1.259
301.	12.19	34.22	4.61	1.62	25.97	212.2	500.	6.75	34.03	26.71	141.4	1.417
400.	9.16	34.09	4.12	1.55	26.40	171.2	600.	5.50	34.12	26.94	119.6	1.549
501.	6.73	34.03	7.63	1.89	26.71	141.1	700.	4.89	34.25	27.11	103.7	1.662
602.	5.48	34.12	1.28		26.94	119.2	800.	4.59	34.37	27.24	91.9	1.760
801.	4.59	34.37	0.85		27.24	91.8	1000.	4.06	34.49	27.40	78.4	1.933
1003.	4.05	34.49	1.10	3.13	27.40	78.3	1200.	3.53	34.53	27.48	70.6	2.084
1203.	3.52	34.53	1.28	3.44	27.48	70.6	1500.	2.85	34.58	27.59	60.8	2.284
1501.	2.84	34.58	1.66	2.91	27.59	60.8						

CROWWELL 12, STATION 16, 23-30N LAT, 153-53W LONG, JAN. 12, 1965, 2400 G.C.T.		WET PULB 21.0		WIND SPEED 14, DIR. 16		BAR. 13	WEATHER 01	VIS. 7	CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.52	35.08	5.07		23.86	405.0	0.	23.52	35.08	23.86	405.0	0.000
10.	23.52	35.07	5.01	0.68	23.86	406.1	10.	23.52	35.07	23.86	406.1	0.041
52.	23.35	35.17	4.90	0.24	23.98	395.7	20.	23.52	35.08	23.87	405.5	0.082
77.	22.97	35.24	4.96	0.20	24.14	381.2	30.	23.49	35.10	23.89	403.8	0.122
102.	21.70	35.24	4.90	0.34	24.50	347.8	50.	23.37	35.16	23.97	396.7	0.203
127.	20.71	35.17	4.65	0.43	24.72	328.4	75.	23.02	35.24	24.13	382.8	0.301
152.	19.48	35.08	4.76	0.39	24.98	304.1	100.	21.81	35.24	24.47	350.5	0.394
178.	18.20	34.90	4.54	0.44	25.16	287.0	150.	19.58	35.09	24.96	306.0	0.559
194.	17.44	34.80	4.70	0.44	25.27	276.9	200.	17.10	34.75	25.32	272.8	0.705
228.	15.36	34.52	4.65	1.53	25.54	251.9	250.	14.00	34.39	25.74	233.6	0.833
282.	13.88	34.38	4.94	1.69	25.75	232.0	300.	12.00	34.24	26.02	207.0	0.944
305.	12.45	34.26	5.00	1.78	25.95	213.6	400.	9.83	34.12	26.31	180.1	1.139
407.	11.90	34.24	4.86		26.04	205.4	500.	7.29	34.08	26.67	145.4	1.303
505.	9.68	34.11	4.66	1.20	26.33	178.4	600.	5.79	34.19	26.96	118.4	1.437
610.	7.17	34.08	2.80	2.01	26.69	143.7	700.	4.98	34.28	27.13	102.3	1.548
813.	5.69	34.20	1.11	2.69	26.98	116.1	800.	4.51	34.35	27.24	92.2	1.646
1016.	4.48	34.36	0.90	3.13	27.25	91.3	1000.	4.00	34.48	27.40	78.2	1.819
1217.	3.97	34.49	1.12	2.95	27.41	77.4	1200.	3.50	34.52	27.48	71.1	1.970
1520.	3.46	34.52	1.32	2.51	27.48	70.7	1500.	2.90	34.58	27.58	61.5	2.172
	2.86	34.58	1.64		27.58	61.1						

CROWWELL 12, STATION 17, 23-24N LAT, 150-58W LONG, JAN. 13, 1965, 1600 G.C.T.		WET BULB 20.2		WIND SPEED 24, DIR. 16		BAR. 12	WEATHER 02	VIS.	CLOUD TYPE , COVER			
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	23.07	35.15			24.05	387.4	0.	23.07	35.15	24.05	387.4	0.000
10.	23.07	35.15			24.05	387.8	10.	23.07	35.15	24.05	387.8	0.039
30.	23.07	35.15			24.05	388.6	20.	23.07	35.15	24.05	388.3	0.078
49.	23.03	35.15			24.06	388.2	30.	23.07	35.15	24.05	388.6	0.117
75.	22.59	35.43			24.32	364.2	50.	23.02	35.16	24.07	387.4	0.195
99.	22.15	35.29			24.42	356.1	75.	22.59	35.33	24.32	364.2	0.290
124.	20.68	35.25			24.79	321.2	100.	22.09	35.29	24.43	354.7	0.381
149.	19.88	35.18			24.95	306.8	150.	19.84	35.17	24.96	306.2	0.547
172.	18.94	35.04			25.09	294.4	200.	17.88	34.89	25.23	281.2	0.695
187.	18.59	35.00			25.14	289.4	250.	14.98	34.48	25.59	247.4	0.828
220.	16.59	34.68			25.38	267.0	300.	12.24	34.24	25.97	211.9	0.944
246.	15.26	34.51			25.56	251.0	400.	9.24	34.08	26.38	173.1	1.139
271.	13.55	34.34			25.79	228.8	500.	6.59	34.03	26.74	138.9	1.296
295.	12.43	34.25			25.94	214.3	600.	5.37	34.13	26.97	116.8	1.425
393.	9.46	34.09			26.35	175.9	700.	4.78	34.26	27.13	101.3	1.535
491.	6.75	34.03			26.71	141.3	800.	4.48	34.37	27.26	90.3	1.632
589.	5.46	34.12			26.95	118.8	1000.	3.90	34.49	27.41	76.6	1.801
785.	4.53	34.36			27.24	91.6	1200.	3.39	34.55	27.51	67.4	1.947
982.	3.95	34.48			27.40	77.6						
1179.	3.44	34.54			27.50	68.7						
1475.	2.83	34.58			27.59	60.5						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 12, STATION 18, 21-56N LAT, 150-54W LONG, JAN. 14, 1965, 0200 G.C.T.												
DRY BULB 24.1		WET BULB 21.1		WIND SPEED 18, DIR. 16		BAR. 11		WEATHER 02		VIS. 6 CLOUD TYPE 6, COVER 7		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.62	34.88			23.68	422.2	0.	23.62	34.88	23.68	422.2	0.000
10.	23.65	34.88			23.67	423.4	10.	23.65	34.88	23.67	423.4	0.043
30.Δ	23.58	34.94			23.74	417.9	20.	23.64	34.91	23.70	421.5	0.085
50.	23.36	34.99			23.34	408.9	30.	23.58	34.94	23.74	417.9	0.127
76.	23.18	35.04			23.93	401.3	50.	23.36	34.99	23.84	408.9	0.211
100.	22.82	35.07			24.06	390.2	75.	23.19	35.04	23.93	401.6	0.313
125.	21.68	35.29			24.55	344.5	100.	22.82	35.07	24.06	390.2	0.413
151.	19.34	34.97			24.93	308.6	150.	19.43	34.99	24.92	309.6	0.589
175.	18.36	34.86			25.09	293.6	200.	16.67	34.65	25.34	270.8	0.735
190.	17.36	34.74			25.25	279.3	250.	12.95	34.23	25.83	224.6	0.860
223.	15.07	34.43			25.55	251.1	300.	10.49	34.08	26.17	192.0	0.965
250.	12.95	34.23			25.83	224.6	400.	7.78	34.04	26.57	153.7	1.139
276.	11.67	34.14			26.00	207.8	500.	5.99	34.09	26.86	126.7	1.281
300.	10.49	34.08			26.17	192.0	600.	5.44	34.23	27.04	110.4	1.401
399.	7.80	34.04			26.57	154.1	700.	4.98	34.35	27.18	97.2	1.506
499.	6.00	34.09			26.86	126.9	800.	4.60	34.43	27.29	87.3	1.599
598.	5.45	34.23			27.03	110.7	1000.	4.05	34.51	27.41	76.6	1.765
796.	4.61	34.43			27.29	87.6	1200.	3.52	34.55	27.50	68.9	1.912
995.	4.06	34.51			27.41	76.8						
1194.	3.52	34.54			27.49	69.8						
1493.	2.84	34.59			27.59	60.0						

CROMWELL 12, STATION 19, 20-29N LAT, 151- 2W LONG, JAN. 14, 1965, 1100 G.C.T.														
DRY BULB 23.0		WET BULB 21.0		WIND SPEED 12, DIR. 17		BAR. 13		WEATHER 03		VIS.		CLOUD TYPE , COVER		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTN.		
0.	23.86	34.79			23.54	435.4	0.	23.86	34.79	23.54	435.4	0.000		
10.	23.88	34.79			23.54	436.3	10.	23.88	34.79	23.54	436.3	0.044		
30.Δ	23.86	34.80			23.55	435.8	20.	23.88	34.79	23.53	437.1	0.088		
51.	23.72	34.96			23.71	421.2	30.	23.86	34.80	23.55	435.8	0.132		
75.	23.37	35.13			23.95	400.1	50.	23.73	34.95	23.70	422.1	0.218		
100.	22.74	35.16			24.15	381.5	75.	23.37	35.13	23.95	400.1	0.322		
124.	21.25	35.19			24.59	340.3	100.	22.74	35.16	24.15	381.5	0.420		
150.	20.29	35.16			24.83	318.6	150.	20.29	35.16	24.83	318.6	0.597		
173.	19.30	35.05			25.00	302.6	200.	17.62	34.81	25.24	280.3	0.748		
187.	18.49	34.94			25.12	291.3	250.	13.45	34.30	25.78	229.3	0.876		
221.	16.00	34.59			25.45	260.5	300.	11.10	34.14	26.10	198.6	0.984		
247.	13.67	34.32			25.75	232.1	400.	7.74	34.07	26.60	151.1	1.160		
272.	12.11	34.19			25.96	212.2	500.	5.97	34.10	26.86	126.1	1.300		
297.	11.22	34.14			26.09	200.2	600.	5.15	34.22	27.06	107.5	1.418		
394.	7.89	34.07			26.58	153.1	700.	4.69	34.35	27.22	93.6	1.520		
494.	6.04	34.09			26.85	127.4	800.	4.42	34.45	27.32	84.0	1.610		
591.	5.20	34.21			27.05	108.9	1000.	3.92	34.51	27.43	74.9	1.770		
788.	4.45	34.44			27.31	84.8	1200.	3.43	34.56	27.51	67.5	1.915		
985.	3.96	34.51			27.42	75.5								
1182.	3.45	34.55			27.51	68.1								
1479.	2.87	34.59			27.59	60.3								

CROMWELL 12, STATION 20, 18-59N LAT, 151- 6W LONG, JAN. 14, 1965, 2000 G.C.T.														
DRY BULB 23.3		WET BULB 20.9		WIND SPEED 16, DIR. 17		BAR. 13		WEATHER 15		VIS. 6		CLOUD TYPE 9, COVER 8		
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTN.		
0.	23.85	34.48			23.31	457.5	0.	23.85	34.48	23.31	457.5	0.000		
10.	23.88	34.48			23.30	458.7	10.	23.88	34.48	23.30	458.7	0.046		
30.Δ	23.87	34.48			23.31	459.2	20.	23.88	34.48	23.30	459.1	0.092		
51.	23.87	34.48			23.31	460.0	30.	23.87	34.48	23.31	459.2	0.139		
75.Δ	23.00	34.75			23.76	417.2	50.	23.88	34.48	23.30	460.4	0.231		
84.	22.19	34.90			24.11	384.7	75.	23.00	34.75	23.76	417.2	0.342		
99.	21.13	34.89			24.39	358.0	100.	21.08	34.89	24.41	356.8	0.439		
124.	20.30	34.92			24.64	335.3	150.	19.90	35.08	24.87	314.6	0.608		
150.	19.90	35.08			24.87	314.6	200.	17.31	34.72	25.24	280.3	0.758		
175.	18.73	34.94			25.06	296.7	250.	14.01	34.34	25.70	237.3	0.889		
189.	17.92	34.80			25.16	287.9	300.	10.74	34.15	26.18	191.3	0.997		
221.	16.07	34.57			25.42	263.5	400.	8.20	34.24	26.67	145.0	1.167		
246.	14.26	34.37			25.65	240.3	500.	6.38	34.21	26.90	123.0	1.302		
272.	12.65	34.23			25.89	219.4	600.	5.88	34.34	27.06	108.4	1.419		
294.	11.02	34.15			26.13	195.9	700.	5.39	34.41	27.18	97.7	1.523		
390.	8.45	34.25			26.64	148.1	800.	4.95	34.46	27.27	89.8	1.618		
488.	6.49	34.20			26.88	125.1	1000.	4.18	34.51	27.40	78.5	1.788		
584.	5.96	34.32			27.04	110.4	1200.	3.57	34.56	27.50	69.2	1.938		
779.	5.04	34.45			27.26	91.3								
974.	4.27	34.50			27.38	79.9								
1169.	3.66	34.55			27.48	70.5								
1466.	2.94	34.58			27.58	61.8								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 12, STATION 21, 17-26N LAT, 151- 2W LONG, JAN. 15, 1965, 0400 G.C.T.													
DRY BULO 23.9		WET GULH 21.1		WIND SPEED 13, DIR. 16		BAR. 11		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 1	
DEPTH	TEMP.	SAL.	LXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OP7TH.	
0.	24.38	34.32			23.04	484.0	0.	24.38	34.32	23.04	484.0	0.000	
11.	24.34	34.34			23.06	481.8	10.	24.34	34.34	23.06	482.2	0.049	
30.	24.20	34.48			23.21	468.5	20.	24.27	34.40	23.13	476.1	0.097	
50.	24.12	34.64			23.34	457.2	30.	24.20	34.48	23.21	468.5	0.145	
75.	24.34	34.91			23.49	443.3	50.	24.18	34.64	23.34	457.2	0.238	
99.	22.83	35.08			24.05	391.1	75.	24.34	34.91	23.49	443.3	0.351	
123.	20.94	35.08			24.59	340.2	100.	22.80	35.08	24.07	388.6	0.456	
148.	19.76	35.01			24.85	316.0	150.	19.67	35.00	24.87	314.3	0.633	
171.	18.33	34.86			25.10	292.7	200.	15.44	34.49	25.50	255.3	0.777	
185.	16.84	34.65			25.30	273.8	250.	11.30	34.16	26.09	198.7	0.891	
248.	13.88	34.34			25.72	234.0	300.	9.82	34.14	26.33	176.5	0.986	
244.	11.60	34.18			26.05	202.9	400.	8.15	34.29	26.72	140.4	1.146	
269.	10.62	34.14			26.19	189.1	500.	7.34	34.41	26.93	121.8	1.278	
293.	9.99	34.13			26.30	179.5	600.	6.44	34.44	27.08	107.9	1.394	
390.	8.25	34.28			26.69	142.9	700.	5.76	34.47	27.18	98.5	1.498	
488.	7.45	34.40			26.90	123.8	800.	5.25	34.48	27.26	91.7	1.594	
585.	6.55	34.44			27.06	109.6	1000.	4.47	34.52	27.38	81.0	1.769	
781.	5.34	34.48			27.24	92.9	1200.	3.73	34.54	27.47	72.1	1.924	
977.	4.56	34.52			27.37	82.1	1500.	2.96	34.58	27.58	61.9	2.128	
1174.	3.81	34.54			27.46	73.1	2000.	2.16	34.64	27.69	50.8	2.414	
1472.	3.02	34.58			27.57	62.8							
2019.	2.14	34.64			27.69	50.6							
2048.	2.10	34.64			27.70	50.2							
2417.	1.82	34.66			27.74	46.7							

CROMWELL 12, STATION 22, 15-58N LAT, 151- 0W LONG, JAN. 15, 1965, 1500 G.C.T.														
DRY BULB 23.0 WET BULB 21.4 WIND SPEED 05, DIR. 16 BAR. 11 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 1														
DEPTH	TEMP.	SAL.	LXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	24.51	34.09			22.82	504.3	0.	24.51	34.09	22.82	504.3	0.000		
10.	24.52	34.08			22.91	505.7	10.	24.52	34.08	22.81	505.7	0.051		
30.Δ	24.51	34.07			22.81	506.9	20.	24.52	34.07	22.81	506.5	0.102		
51.	24.47	34.07			22.82	506.5	30.	24.51	34.07	22.81	506.9	0.153		
75.	23.28	34.64			23.60	432.9	50.	24.48	34.06	22.81	507.3	0.255		
99.	21.90	34.78			24.10	386.2	75.	23.28	34.64	23.60	432.9	0.373		
124.	20.17	34.95			24.70	329.9	100.	21.83	34.79	24.13	383.7	0.476		
148.	19.09	34.93			24.96	305.2	150.	18.87	34.90	25.00	301.9	0.649		
172.	16.04	34.55			25.41	262.8	200.	13.01	34.26	25.83	222.5	0.781		
187.	14.12	34.35			25.68	237.3	250.	10.55	34.24	26.28	180.3	0.883		
220.	11.87	34.21			26.02	205.0	300.	9.64	34.32	26.51	159.8	0.969		
244.	10.84	34.24			26.23	185.0	400.	8.70	34.47	26.77	135.7	1.118		
269.	9.82	34.24			26.41	168.3	500.	7.37	34.47	26.97	117.8	1.246		
294.	9.68	34.31			26.49	161.4	600.	6.44	34.46	27.09	106.8	1.359		
393.	8.79	34.47			26.76	137.3	700.	5.75	34.47	27.19	97.9	1.462		
491.	7.47	34.47			26.96	119.0	800.	5.22	34.49	27.27	90.7	1.558		
589.	6.53	34.46			27.08	107.9	1000.	4.42	34.53	27.39	79.7	1.730		
786.	5.29	34.49			27.26	91.6	1200.	3.77	34.56	27.48	71.5	1.883		
983.	4.48	34.53			27.38	80.4								
1181.	3.82	34.55			27.47	72.6								
1476.	3.14	34.59			27.57	63.5								

CROMWELL 12, STATION 23, 14-30N LAT, 151- 4W LONG, JAN. 16, 1965, 0200 G.C.T.														
DRY BULB 24.9 WET BULB 22.0 WIND SPEED 07, DIR. 14 BAR. 11 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 3														
DEPTH	TEMP.	SAL.	LXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	25.29	34.07			22.58	528.0	0.	25.28	34.07	22.58	528.0	0.000		
10.	24.83	34.07			22.71	515.3	10.	24.83	34.07	22.71	515.3	0.053		
20.Δ	24.80	34.07			22.72	514.8	20.	24.80	34.07	22.72	514.8	0.104		
30.Δ	24.78	34.07			22.73	514.6	30.	24.78	34.07	22.73	514.6	0.156		
50.	24.78	34.07			22.73	514.4	50.	24.78	34.07	22.73	515.4	0.260		
76.	24.80	34.07			22.72	517.0	75.	24.86	34.06	22.70	518.9	0.390		
101.	19.09	34.65			24.75	323.9	100.	19.34	34.63	24.67	331.6	0.497		
126.	16.83	34.62			25.28	273.9	150.	13.94	34.37	25.73	231.0	0.639		
152.	13.70	34.35			25.77	227.9	200.	11.25	34.46	26.33	175.0	0.742		
177.	11.63	34.28			26.12	194.5	250.	10.47	34.60	26.58	152.1	0.824		
192.	11.40	34.40			26.26	181.9	300.	9.62	34.57	26.70	141.1	0.898		
226.	10.76	34.59			26.52	157.5	400.	8.67	34.58	26.86	127.5	1.033		
253.	10.43	34.60			26.58	151.7	500.	7.57	34.53	26.99	115.9	1.156		
278.	9.96	34.59			26.66	145.0	600.	6.70	34.52	27.10	106.0	1.268		
304.	9.56	34.57			26.71	140.5	700.	5.96	34.53	27.21	96.1	1.370		
405.	8.63	34.58			26.87	126.9	800.	5.33	34.55	27.30	88.0	1.464		
506.	7.50	34.53			27.00	115.2	1000.	4.42	34.50	27.37	81.9	1.635		
607.	6.65*	34.52			27.11	105.4	1200.	3.86	34.56	27.48	72.1	1.791		
809.	5.23	34.55			27.31	87.3	1500.	3.10	34.60	27.58	62.7	1.996		
1011.	4.38	34.50			27.37	81.7								
1212.	3.83	34.57			27.48	71.5								
1515.	3.07	34.60			27.58	62.2								

ΔFROM BT DATA
*INTERPOLATED DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 12, STATION 24, 13- ON LAT, 150-59W LONG, JAN. 16, 1965, 1200 G.C.T.													
DRY BULB 24.0		WET BULB 21.5		WIND SPEED 10, DIR. 09		BAR. 12		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.	
0.	24.98	34.17			22.74	512.0	0.	24.98	34.17	22.74	512.0	0.000	
10.	24.98	34.17			22.74	512.4	10.	24.98	34.17	22.74	512.4	0.052	
30.Δ	24.90	34.17			22.77	510.9	20.	24.94	34.17	22.75	511.8	0.103	
51.	24.85	34.17			22.78	510.3	30.	24.90	34.17	22.77	510.9	0.155	
77.	18.65	34.58			24.81	317.5	50.	24.90	34.17	22.76	512.0	0.258	
101.	15.35	34.43			25.47	254.5	75.	19.20	34.55	24.65	332.9	0.364	
126.	13.76	34.40			25.79	224.7	100.	15.45	34.44	25.46	255.8	0.438	
151.	11.55	34.42			26.24	182.2	150.	11.63	34.42	26.23	183.7	0.549	
176.	11.35	34.61			26.43	165.2	200.	10.79	34.61	26.53	155.6	0.635	
191.	10.92	34.60			26.50	158.7	250.	10.19	34.65	26.67	143.9	0.710	
224.	10.57	34.66			26.61	149.0	300.	9.73	34.64	26.74	138.0	0.781	
251.	10.18	34.65			26.67	143.7	400.	8.58	34.59	26.88	125.3	0.914	
277.	9.94	34.65			26.71	140.3	500.	7.46	34.54	27.01	113.8	1.035	
301.	9.72	34.64			26.74	137.9	600.	6.52	34.51	27.12	104.2	1.145	
400.	8.58	34.59			26.88	125.3	700.	5.79	34.52	27.22	95.0	1.245	
501.	7.45	34.54			27.01	113.7	800.	5.22	34.54	27.31	87.2	1.337	
600.	6.52	34.51			27.12	104.2	1000.	4.42	34.55	27.41	78.4	1.505	
800.	5.27	34.54			27.31	87.2	1200.	3.79	34.58	27.50	70.1	1.655	
1000.	4.42	34.55			27.41	78.4	1500.	3.09	34.61	27.59	61.6	1.856	
1200.	3.79	34.58			27.50	70.1							
1500.	3.09	34.61			27.59	61.6							

TEMPERATURE ERROR TERM AT 75. METERS IS 0.11

CROMWELL	12, STATION	25, 11-31N LAT, 150-56W LONG, JAN. 16, 1965, 2100 G.C.T.												
DRY BULB 25.1	WET BULB 22.1	WIND SPEED 16, DIR. 06	BAR. 13	WEATHER 01	VIS. 8	CLOUD TYPE 8, COVER 2								
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	25.04	34.34			22.85	501.5	0.	25.04	34.34	22.85	501.5	0.000		
9.	25.00	34.33			22.84	502.6	10.	25.04	34.33	22.85	502.4	0.051		
30.Δ	25.00	34.44			22.94	494.3	20.	25.03	34.38	22.88	499.4	0.101		
49.	24.92	34.55			23.05	484.8	30.	25.00	34.44	22.94	494.3	0.151		
74.	17.09	34.53			25.19	281.0	50.	24.66	34.55	23.13	476.9	0.249		
98.	13.06	34.47			25.91	212.5	75.	16.87	34.57	25.24	276.5	0.344		
122.	10.98	34.21			26.18	186.9	100.	12.81	34.35	25.94	209.5	0.405		
147.	11.11	34.55			26.42	164.7	150.	11.07	34.56	26.44	163.1	0.499		
170.	10.74	34.60			26.53	155.1	200.	10.44	34.65	26.62	146.8	0.577		
184.	10.58	34.64			26.59	149.8	250.	9.98	34.66	26.71	139.5	0.649		
218.	10.29	34.65			26.65	144.9	300.	9.58	34.66	26.78	134.2	0.718		
245.	10.02	34.66			26.70	140.2	400.	8.56	34.61	26.90	123.8	0.848		
269.	9.82	34.66			26.74	137.4	500.	7.50	34.57	27.03	112.4	0.968		
293.	9.64	34.66			26.77	134.9	600.	6.58	34.54	27.13	102.9	1.076		
391.	8.66	34.61			26.89	124.9	700.	5.84	34.53	27.23	94.6	1.176		
492.	7.58	34.57			27.02	113.2	800.	5.26	34.54	27.30	87.7	1.268		
592.	6.65	34.54			27.13	103.7	1000.	4.49	34.56	27.41	78.5	1.437		
794.	5.29	34.54			27.30	88.0	1200.	3.74	34.58	27.50	69.5	1.586		
996.	4.51	34.56			27.40	78.7	1500.	3.05	34.60	27.58	61.8	1.786		
1196.	3.75	34.58			27.50	69.6	2000.	2.19	34.64	27.69	51.0	2.073		
1499.	3.05	34.60			27.58	61.8	2500.	1.91	34.66	27.73	48.2	2.326		
1951.	2.24	34.64			27.69	51.5	3000.	1.71	34.67	27.75	46.2	2.567		
2326.	1.99	34.65			27.71	49.2								
2703.	1.83	34.67			27.74	47.1								
3459.	1.60	34.68			27.77	45.6								

CROMWELL	12, STATION	26, 10-54 LAT, 148-34 LONG, JAN. 17, 1965, 1700 G.C.T.												
DRY BULB 24.5	WET BULB 22.7	WIND SPEED 16, DIR. 04	BAR. 13	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 5								
DEPTH	TEMP.	SAL.	UXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. OPTH.		
0.	25.74	34.46	4.84		22.73	513.4	0.	25.74	34.46	22.73	513.4	0.000		
10.	25.78	34.46	4.84	1.08	22.72	514.9	10.	25.78	34.46	22.72	514.9	0.052		
20.Δ	25.66	34.46			22.75	511.8	20.	25.66	34.46	22.75	511.8	0.103		
30.Δ	25.00	34.49			22.98	490.7	30.	25.00	34.49	22.98	490.7	0.154		
51.	19.39	34.70	4.95	0.57	24.71	325.9	50.	19.71	34.69	24.62	334.2	0.237		
76.	14.37	34.31	4.01	0.96	25.61	241.2	75.	14.48	34.33	25.59	243.0	0.310		
91.	12.75	34.27	2.64		25.89	214.3	100.	12.29	34.35	26.04	199.9	0.366		
126.	11.63	34.63	0.44		26.39	167.6	150.	11.17	34.72	26.54	153.5	0.455		
151.	11.16	34.72	0.40		26.55	153.2	200.	10.54	34.72	26.66	143.9	0.530		
177.	10.87	34.73	0.38		26.62	147.1	250.	10.09	34.70	26.72	138.5	0.601		
191.	10.63	34.72	0.45	2.44	26.64	144.9	300.	9.78	34.70	26.78	134.3	0.670		
226.	10.33	34.71	0.41	2.76	26.69	141.3	400.	8.92	34.64	26.87	126.7	0.801		
250.	10.09	34.70	0.40	2.51	26.72	138.5	500.	7.90	34.59	26.99	116.5	0.924		
278.	9.53	34.71	0.44	2.40	26.76	135.7	600.	6.91	34.54	27.09	107.3	1.037		
303.	9.76	34.70	0.39	2.23	26.78	134.2	700.	6.08	34.53	27.19	98.1	1.141		
404.	8.48	34.64	0.48	2.38	26.88	126.4	800.	5.41	34.54	27.28	89.8	1.236		
505.	7.85	34.59	0.19	2.64	26.99	116.0	1000.	4.48	34.56	27.41	78.5	1.406		
605.	6.86	34.54	0.36	3.33	27.10	106.8	1200.	3.80	34.58	27.49	70.3	1.557		
810.	5.35	34.54	0.64	2.67	27.29	89.0	1500.	3.03	34.60	27.58	61.7	1.758		
1009.	4.45	34.56	1.12	2.87	27.41	78.1								
1210.	3.77	34.58	1.47	3.13	27.50	70.0								
1512.	3.01	34.60	1.90	3.27	27.59	61.4								

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 12, STATION 27, 11-30N LAT, 148- 3W LONG, JAN. 18, 1965, 0100 G.C.T.													
DRY BULB 24.7		WET BULB 22.3		WIND SPEED 12, DIR. 04		BAR. 12		WEATHER 02		VIS. 7		CLOUD TYPE 4, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.	
0.	24.74	34.20	4.90		22.84	503.0	0.	24.74	34.20	22.84	503.0	0.000	
10.	24.72	34.20	5.02	0.9	22.84	502.8	10.	24.72	34.20	22.84	502.8	0.051	
30.Δ	24.42	34.27			22.99	489.9	20.	24.65	34.22	22.88	500.1	0.101	
52.	22.94	34.59	5.20	0.22	23.66	426.3	30.	24.42	34.27	22.99	489.9	0.151	
78.	20.25	34.92	4.94	0.39	24.65	332.4	50.	23.11	34.56	23.59	433.4	0.244	
103.	16.04	34.48	3.89	0.88	25.36	265.8	75.	20.63	34.90	24.54	343.2	0.342	
128.	13.38	34.45	1.54	1.24	25.91	213.6	100.	16.55	34.54	25.29	272.4	0.419	
154.	12.09	34.65	0.38	2.62	26.33	174.4	150.	12.22	34.62	26.27	179.3	0.533	
179.	11.38	34.72	0.30	2.44	26.51	157.7	200.	11.10	34.73	26.57	152.4	0.617	
194.	11.16	34.73	0.34	1.98	26.56	153.5	250.	10.59	34.72	26.65	145.4	0.692	
228.	10.84	34.73	0.38	2.47	26.61	148.6	300.	10.11	34.71	26.73	139.0	0.764	
253.	10.53	34.74	0.44	1.86	26.66	144.9	400.	9.38	34.68	26.83	131.3	0.900	
281.	10.26	34.72	0.43	2.16	26.71	140.6	500.	8.57	34.63	26.91	124.3	1.029	
306.	10.07	34.71	0.48	2.68	26.73	138.7	600.	7.60	34.57	27.02	115.0	1.150	
406.	9.33	34.68	0.33	2.38	26.83	130.9	700.	6.72	34.55	27.12	105.7	1.261	
509.	8.49	34.62	0.24	3.13	26.92	123.7	800.	5.98	34.54	27.21	97.3	1.364	
610.	7.50	34.57	0.31	3.04	27.03	114.0	1000.	4.87	34.55	27.35	84.2	1.548	
812.	5.90	34.54	0.26	2.67	27.22	96.4	1200.	4.01	34.57	27.46	73.8	1.708	
1013.	4.81	34.55	1.05	2.30	27.36	83.5	1500.	3.17	34.60	27.57	63.5	1.917	
1217.	3.95	34.57	1.37	2.58	27.47	73.0							
1518.	3.14	34.60	1.77	2.84	27.57	63.1							

CROMWELL 12, STATION 28, 12- ON LAT, 148- 1W LONG, JAN. 18, 1965, 1100 G.C.T.															
DRY BULB 23.8		WET BULB 21.0		WIND SPEED 17, DIR. 05		BAR. 15		WEATHER 01		VIS. 6		CLOUD TYPE 8, COVER 1			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.			
0.	24.39	34.03			22.81	505.2	0.	24.39	34.03	22.81	505.2	0.000			
9.	24.37	34.03	5.02	0.56	22.82	505.0	10.	24.37	34.03	22.82	505.0	0.051			
30.Δ	24.38	34.33			22.82	506.1	20.	24.37	34.03	22.82	505.4	0.102			
48.	24.38	34.03	4.99	0.88	22.82	506.7	30.	24.38	34.03	22.82	506.1	0.153			
72.	24.25	34.04	4.95	0.44	22.86	503.2	50.	24.54	34.02	22.76	511.9	0.255			
96.	15.20	34.42	3.06	1.51	25.50	251.9	75.	23.16	34.10	23.22	468.8	0.379			
100.Δ	14.40	34.41			25.67	236.2	100.	14.40	34.41	25.67	236.2	0.468			
119.	12.67	34.38	1.85	2.00	26.00	204.9	150.	11.33	34.45	26.30	176.3	0.571			
144.	11.35	34.39	1.72	2.42	26.26	180.6	200.	10.77	34.61	26.53	155.6	0.655			
167.	11.40	34.60	0.63	2.69	26.41	166.6	250.	10.17	34.64	26.66	144.7	0.731			
181.	11.14	34.61	0.45	2.56	26.47	161.6	300.	9.89	34.65	26.71	140.2	0.803			
213.	10.54	34.61	0.41	2.76	26.57	151.9	400.	8.67	34.59	26.87	126.8	0.937			
239.	10.24	34.63	0.30	2.80	26.64	146.0	500.	7.62	34.53	26.98	116.8	1.060			
263.	10.17	34.64	0.28	2.78	26.67	143.7	600.	6.67	34.51	27.10	106.5	1.173			
287.	10.02	34.65	0.19	2.44	26.69	141.8	700.	5.86	34.50	27.20	97.0	1.276			
382.	8.87	34.60	0.34	2.82	26.85	128.7	800.	5.25	34.51	27.28	89.5	1.370			
479.	7.83	34.54	0.64	3.05	26.96	118.9	1000.	4.50	34.54	27.39	79.7	1.541			
574.	6.91	34.51	0.42	2.98	27.07	109.3	1200.	3.81	34.57	27.48	71.3	1.694			
765.	5.42	34.51	0.58		27.26	91.6									
958.	4.66	34.54	0.99	2.96	27.37	81.7									
1150.	3.95	34.56	1.16	2.58	27.46	73.2									
1441.	3.13	34.59	1.65	2.60	27.57	63.1									

TEMPERATURE ERROR TERM AT 50. METERS IS 0.11

TEMPERATURE ERROR TERM AT 75. METERS IS 0.30

CROMWELL 12, STATION 29, 14-30N LAT, 148- 2W LONG, JAN. 18, 1965, 2000 G.C.T.															
DRY BULB 24.1		WET BULB 21.1		WIND SPEED 23, DIR. 05		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 2			
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.			
0.	24.22	33.94	5.07		22.80	506.9	0.	24.22	33.94	22.80	506.9	0.000			
10.	24.25	33.95	5.12	0.28	22.80	507.4	10.	24.25	33.95	22.80	507.4	0.051			
30.Δ	24.14	34.05			22.90	497.8	20.	24.21	34.00	22.84	503.5	0.102			
50.Δ	23.95	34.12			23.01	488.2	30.	24.14	34.05	22.90	497.8	0.152			
54.	23.12	34.32	5.07	0.40	23.40	450.8	50.	23.95	34.12	23.01	488.2	0.252			
74.	21.37	34.76	5.06	0.36	24.24	371.4	75.	21.25	34.77	24.07	368.7	0.360			
98.	19.83	34.91	5.17	0.37	24.76	323.3	100.	19.77	34.92	24.78	321.0	0.447			
123.	18.54	34.87	4.64	0.48	25.07	294.0	150.	14.56	34.32	25.57	247.1	0.590			
148.	14.76	34.34	3.86	1.04	25.53	250.1	200.	11.03	34.24	26.20	187.0	0.699			
170.	12.88	34.26	3.05	1.33	25.86	219.0	250.	10.20	34.44	26.50	159.7	0.786			
185.	11.68	34.23	2.44	1.80	26.07	199.3	300.	9.73	34.53	26.65	145.7	0.863			
218.	10.64	34.30	2.42	2.09	26.31	176.6	400.	8.43	34.56	26.89	125.0	1.000			
243.	10.30	34.41	1.48	2.46	26.46	163.2	500.	7.38	34.51	27.00	115.0	1.121			
267.	9.97	34.49	1.00	1.96	26.58	152.3	600.	6.71	34.51	27.09	106.8	1.233			
296.	9.77	34.53	0.64	2.11	26.64	146.7	700.	5.97	34.52	27.19	97.7	1.336			
386.	8.61	34.57	0.48	2.67	26.86	126.9	800.	5.33	34.52	27.28	89.9	1.431			
481.	7.52	34.51	0.56	2.73	26.98	116.6	1000.	4.45	34.54	27.40	79.1	1.602			
576.	6.89	34.51	0.52	2.91	27.07	109.0	1200.	3.71	34.57	27.49	70.2	1.753			
765.	5.52	34.52	0.54	3.22	27.25	92.1									
956.	4.63	34.54	0.86	3.18	27.37	81.3									
1146.	3.89	34.56	1.18	2.33	27.47	72.4									
1432.	3.06	34.59	1.61	3.04	27.57	62.2									

ΔFROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA					
CROMWELL 17, STATION 30, 16-24N LAT, 148-5W LONG, JAN. 19, 1965, 0500 G.C.T.													
DRY BULB 23.9		WET BULB 21.0		WIND SPEED 12, DIR. 06		BAR. 17		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	OPYTH.
0.	24.17	34.11	4.98		22.96	491.2	0.	24.10	34.11	22.96	491.2	0.000	
11.	24.14	34.10	5.18	0.32	22.94	493.5	10.	24.14	34.10	22.94	493.4	0.050	
30.Δ	24.08	34.17			23.01	487.5	20.	24.13	34.12	22.96	491.8	0.099	
50.	23.92	34.29	5.02	0.48	23.15	475.1	30.	24.08	34.17	23.01	487.5	0.149	
73.	22.72	34.70	5.25	0.91	23.81	413.1	50.	23.92	34.29	23.15	475.1	0.245	
97.	20.67	34.89	5.07	0.36	24.52	346.0	75.	22.54	34.72	23.88	406.6	0.357	
123.	19.79	34.92	5.02	0.35	24.78	322.4	100.	20.54	34.90	24.56	342.0	0.451	
146.	18.76	34.86	4.62	0.46	24.99	302.2	150.	18.48	34.82	25.03	298.5	0.612	
171.	16.54	34.55	4.74	0.82	25.30	273.8	200.	13.32	34.28	25.79	227.1	0.745	
185.	14.83	34.37	3.75	1.14	25.54	250.4	250.	10.33	34.22	26.31	177.6	0.847	
217.	11.99	34.24	2.78	1.60	26.02	204.8	300.	10.59	34.61	26.56	135.2	1.077	
242.	10.63	34.22	3.04	1.79	26.25	182.8	400.	8.94	34.53	26.73	122.2	1.207	
268.	10.02	34.27	2.28	2.15	26.41	167.9	500.	7.70	34.47	26.93	111.1	1.325	
291.	10.60	34.57	0.70	2.27	26.53	157.7	600.	6.75	34.46	27.05	100.7	1.432	
388.	9.11	34.54	0.46	2.81	26.76	137.1	700.	5.96	34.47	27.16	92.1	1.529	
484.	7.87	34.48	0.34	3.04	26.91	124.0	800.	5.34	34.50	27.26	80.8	1.704	
580.	6.93	34.46	0.34	2.37	27.02	113.3	1000.	4.53	34.54	27.38	72.1	1.859	
774.	5.48	34.49	0.54	3.36	27.24	93.9	1200.	3.86	34.57	27.48			
968.	4.64	34.53	0.80	3.29	27.17	82.3							
1162.	4.01	34.56	1.04	3.36	27.46	74.0							
1456.	3.18	34.59	1.43	2.69	27.56	63.9							

CROMWELL 12, STATION 31, 17-29N LAT, 147-59W LONG, JAN. 19, 1965, 1500 G.C.T.														
DRY BULB 23.9			WET BULB 20.9		WIND SPEED 16, DIR. 04		BAR. 19		WEATHER 03		VIS. 5		CLOUD TYPE 8, COVER 7	
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	DEPTH	TEMP.
0.	24.10	34.28	5.06		23.09	478.9	0.	24.10	34.28	23.09	478.9	0.000		
11.Δ	24.09	34.28	5.18	0.36	23.09	479.1	10.	24.09	34.28	23.09	479.1	0.048		
30.	24.07	34.28			23.09	479.8	20.	24.09	34.28	23.09	479.4	0.097		
49.	24.09	34.29	5.03	0.33	23.10	479.9	30.	24.09	34.28	23.09	479.8	0.145		
76.	24.40	34.79	5.00	0.34	23.38	453.7	50.	24.12	34.31	23.10	479.5	0.241		
99.	22.33	34.78	5.30	0.56	23.98	397.7	75.	24.41	34.77	23.37	455.3	0.359		
124.	20.83	34.86	4.99	0.44	24.45	353.2	100.	22.26	34.78	24.00	395.7	0.466		
149.	19.59	34.99	4.91	0.68	24.80	320.5	150.	19.56	34.89	24.81	319.7	0.647		
172.	18.45	34.81	4.60	0.52	25.03	299.2	200.	15.12	34.42	25.52	253.4	0.791		
187.	16.62	34.57	4.24	0.64	25.29	274.7	250.	11.13	34.16	26.12	196.3	0.904		
220.	13.17	34.26	4.27	0.89	25.62	224.9	300.	9.28	34.14	26.42	167.5	0.996		
247.	11.26	34.16	4.13	1.41	26.09	198.3	400.	7.40	34.21	26.76	135.7	1.149		
272.	10.33	34.13	3.58	2.09	26.25	183.5	500.	7.01	34.39	26.96	118.2	1.277		
296.	9.40	34.14	3.52	1.71	26.40	169.4	600.	6.15	34.42	27.10	105.5	1.390		
395.	7.43	34.20	3.31	2.60	26.75	136.8	700.	5.59	34.46	27.20	96.7	1.492		
495.	7.05	34.39	0.60		26.95	118.9	800.	5.18	34.49	27.27	90.2	1.587		
593.	6.19	34.42	0.68	3.00	27.09	106.2	1000.	4.35	34.51	27.38	80.3	1.759		
789.	5.23	34.49	0.79	3.00	27.27	90.9	1200.	3.70	34.54	27.48	71.6	1.913		
987.	4.40	34.51	0.98	3.07	27.39	80.9								
1185.	3.76	34.55	1.17	3.19	27.47	71.9								
1480.	2.99	34.58	1.53	3.11	27.57	62.4								

CROMWELL 17, STATION 32, 19-14N LAT, 147-57W LONG, JAN. 19, 1965, 2300 G.C.T.														
DRY BULB 24.1			WET BULB 20.9		WIND SPEED 16, DIR. 06		BAR. 20		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 5	
DEPTH	TEMP.	SAL.	CHL.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CHL.	DEPTH	TEMP.
0.	24.15	34.27	5.02		23.07	481.1	0.	24.15	34.27	23.07	481.1	0.000		
10.	24.15	34.27	5.10	1.25	23.07	481.5	10.	24.15	34.27	23.07	481.5	0.048		
30.Δ	24.12	34.27			23.08	481.4	20.	24.14	34.27	23.07	481.6	0.097		
51.	24.01	34.26	5.04	1.02	23.10	479.8	30.	24.12	34.27	23.08	481.4	0.145		
77.	23.87	34.39	5.21	0.29	23.24	467.5	50.	24.02	34.26	23.10	460.0	0.242		
102.	23.03	34.60	5.17		23.64	429.9	75.	23.89	34.38	23.22	469.1	0.362		
127.	20.90	34.77	5.06	0.37	24.38	360.2	100.	23.13	34.58	23.60	434.0	0.476		
153.	19.08	34.73	4.50	0.59	24.85	316.0	150.	19.28	34.79	24.81	320.2	0.666		
178.	17.36	34.70	4.41	0.60	25.22	281.8	200.	14.89	34.40	25.55	250.0	0.809		
193.	15.76	34.48	3.75	0.92	25.42	262.4	250.	10.33	34.15	26.25	183.0	0.918		
227.	11.84	34.19	3.20	1.40	26.01	206.1	300.	9.38	34.24	26.48	162.0	1.005		
254.	10.15	34.15	3.28	1.67	26.29	180.1	400.	7.17	34.20	26.79	133.3	1.154		
280.	9.41	34.10	3.76	1.48	26.37	172.2	500.	6.91	34.41	26.99	115.8	1.280		
305.	9.40	34.28	2.16	2.40	26.51	159.3	600.	6.33	34.47	27.11	104.5	1.391		
406.	7.01	34.13	1.78	2.65	26.79	132.5	700.	5.69	34.48	27.20	96.6	1.493		
508.	6.44	34.43	0.56	3.04	27.00	114.6	800.	5.14	34.48	27.27	90.5	1.588		
609.	6.26	34.47	0.50	3.13	27.12	103.7	1000.	4.34	34.52	27.39	79.8	1.760		
811.	5.08	34.46	0.72	3.14	27.28	89.9	1200.	3.71	34.55	27.48	71.5	1.913		
1013.	4.30	34.52	0.92	3.28	27.39	79.2	1500.	3.05	34.59	27.57	62.6	2.117		
1214.	3.67	34.55	1.16	2.96	27.48	71.0								
1516.	3.02	34.59	1.42	3.08	27.58	62.3								

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 17, STATION 33, 20-30N LAT, 148- 2N LONG, JAN. 20, 1965, 0900 G.C.T. DRY BULB 23.0 WFT BULB 20.1 WIND SPEED 20, DIR. 05 BAR. 20 WEATHER 03 VIS. 6 CLOUD TYPE 8, COVER 5												
DEPTH	TEMP.	SAL.	DXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.71	34.38	5.25		23.28	460.8	0.	23.71	34.38	23.28	460.8	0.000
11.	23.72	34.38	4.89	0.38	23.28	461.5	10.	23.72	34.38	23.27	461.6	0.046
30.Δ	23.60	34.48			23.39	451.6	20.	23.68	34.42	23.32	457.9	0.093
53.Δ	23.34	34.62	5.04	0.35	23.57	435.2	30.	23.60	34.48	23.39	451.6	0.139
75.	23.18	34.61			23.61	432.3	50.	23.37	34.61	23.55	437.1	0.228
78.	23.15	34.61	5.00	0.30	23.62	431.6	75.	23.18	34.61	23.61	432.3	0.338
103.	23.18	35.06	5.02	0.24	23.95	400.9	100.	23.19	34.99	23.89	406.1	0.443
129.	21.97	35.22	5.09	0.27	24.41	357.4	150.	20.55	35.06	24.68	332.3	0.629
154.	20.30	35.03	4.84	0.33	24.72	328.4	200.	18.09	34.90	25.19	285.2	0.785
179.	19.54	35.08	4.88	0.30	24.96	306.6	250.	13.84	34.30	25.70	236.9	0.916
194.	18.49	34.96	4.90	0.40	25.14	290.1	300.	10.96	34.17	26.16	193.6	1.025
229.	15.91	34.56	4.52	0.60	25.45	260.9	400.	8.61	34.31	26.66	146.7	1.197
256.	13.26	34.24	3.98	1.21	25.77	230.0	500.	7.18	34.38	26.92	122.0	1.332
280.	11.51	34.13	4.20	1.24	26.03	205.8	600.	6.54	34.44	27.06	110.0	1.449
306.	10.87	34.19	3.20	1.81	26.19	190.6	700.	5.93	34.47	27.16	100.9	1.556
407.	8.46	34.31	1.46	2.66	26.68	144.2	800.	5.36	34.48	27.24	93.5	1.654
509.	7.10	34.38	0.68	3.13	26.94	120.6	1000.	4.56	34.51	27.36	83.2	1.833
609.	6.50	34.44	0.38	3.07	27.07	109.2	1200.	3.89	34.54	27.45	74.5	1.993
813.	5.29	34.48	0.56	3.07	27.25	92.6	1500.	3.14	34.56	27.54	66.0	2.206
1014.	4.51	34.51	1.12	3.06	27.36	82.6						
1216.	3.84	34.54	1.09	3.11	27.46	73.8						
1519.	3.11	34.56	1.39	3.11	27.55	65.6						

CROMWELL 12, STATION 34, 22- 0N LAT, 147-55W LONG, JAN. 20, 1965, 1800 G.C.T. DRY BULB 22.8 WET BULB 22.0 WIND SPEED 16, DIR. 08 BAR. 20 WEATHER 01 VIS. 7 CLOUD TYPE 8, COVER 2												
DEPTH	TEMP.	SAL.	DY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.51	34.57	5.06		23.48	441.5	0.	23.51	34.57	23.48	441.5	0.000
9.	23.54	34.57	5.10	0.78	23.47	442.7	10.	23.54	34.57	23.47	442.7	0.045
30.Δ	23.54	34.57			23.47	443.5	20.	23.55	34.57	23.47	443.4	0.089
48.	23.55	34.60	5.02	0.31	23.49	442.3	30.	23.54	34.57	23.47	443.5	0.134
71.	23.28	35.14	5.16	0.18	23.98	396.7	50.	23.53	34.65	23.53	438.5	0.223
95.	23.16	35.20	5.13	0.21	24.06	389.7	75.	23.27	35.17	24.00	394.7	0.328
119.	22.57	35.32	5.14	0.21	24.32	366.1	100.	23.07	35.23	24.11	385.6	0.426
143.	21.42	35.27	4.95	0.20	24.60	339.7	150.	21.02	35.24	24.69	331.6	0.607
166.	20.14	35.17	4.90	0.51	24.87	314.7	200.	18.53	34.97	25.14	290.3	0.763
180.	19.57	35.13	4.90		24.99	303.7	250.	14.81	34.42	25.59	248.1	0.899
212.	17.75	34.84	4.70		25.23	281.8	300.	11.77	34.16	26.00	208.4	1.014
236.	15.77	34.53	4.41	0.52	25.46	260.3	400.	8.43	34.10	26.52	159.1	1.200
262.	14.04	34.35	4.72	0.64	25.70	237.7	500.	6.48	34.09	26.79	133.2	1.347
284.	12.57	34.21	4.59	0.82	25.89	219.6	600.	5.68	34.22	27.00	114.4	1.472
378.	9.08	34.12	3.45	1.89	26.44	167.0	700.	5.17	34.34	27.15	100.3	1.581
475.	6.80	34.07	2.29	2.44	26.74	138.8	800.	4.83	34.42	27.26	90.8	1.677
570.	5.87	34.18	1.16	2.87	26.94	119.4	1000.	4.19	34.49	27.39	79.6	1.850
759.	4.98	34.40	0.67	3.31	27.22	94.0	1200.	3.61	34.54	27.48	70.6	2.002
952.	4.35	34.48	0.94	2.87	27.36	82.2						
1144.	3.74	34.53	1.16	3.17	27.46	72.7						
1435.	3.04	34.57	1.44	2.87	27.56	63.5						

CROMWELL 12, STATION 35, 23-28N LAT, 149- 1W LONG, JAN. 21, 1965, 0300 G.C.T.													
DRY BULB 22.6		WET BULB 19.9		WIND SPEED 16, DIR. 10		BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 3	
DEPTH	TEMP.	SAL.	XY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	22.84	35.19	5.07		24.15	378.0	0.	22.83	35.19	24.15	378.0	0.000	
10.	22.80	35.19	5.10	0.24	24.16	377.5	10.	22.80	35.19	24.16	377.5	0.038	
46.	22.32	35.29	5.09	0.22	24.37	358.7	20.	22.68	35.22	24.21	372.8	0.076	
69.	22.15	35.27	5.12	0.26	24.42	355.0	30.	22.55	35.24	24.27	367.7	0.113	
91.	21.86	35.36	5.11	0.19	24.55	343.0	50.	22.29	35.29	24.37	358.1	0.186	
114.	20.89	35.23	5.12	0.22	24.72	327.7	75.	22.11	35.32	24.45	352.2	0.276	
137.	19.91	35.13	4.90	0.27	24.93	308.2	100.	21.53	35.32	24.61	337.4	0.363	
158.	19.28	35.08	4.88	0.47	25.03	299.4	150.	19.48	35.10	24.99	302.5	0.524	
171.	18.79	35.02	4.88	0.31	25.11	292.2	200.	17.48	34.81	25.27	277.4	0.670	
202.	17.37	34.79	4.80	0.48	25.28	276.3	250.	14.67	34.44	25.63	243.8	0.801	
227.	15.63	34.54	4.73	0.57	25.50	256.2	300.	11.88	34.15	25.98	211.1	0.916	
250.	14.67	34.44	4.83	0.69	25.63	243.8	400.	8.76	34.04	26.43	168.6	1.108	
271.	13.25	34.27	4.65	0.83	25.80	228.0	500.	6.56	34.04	26.74	138.0	1.262	
362.	9.87	34.08	4.72	1.33	26.28	182.8	600.	5.36	34.15	26.98	115.3	1.390	
452.	7.49	34.07	3.34	2.16	26.60	151.9	700.	4.80	34.29	27.15	99.6	1.499	
543.	5.91	34.08	1.47	2.81	26.86	127.0	800.	4.54	34.39	27.26	89.8	1.595	
725.	4.74	34.32	1.20	3.28	27.19	96.6	1000.	4.10	34.50	27.40	78.4	1.765	
909.	4.35	34.46	0.87	3.64	27.34	83.3	1200.	3.60	34.55	27.49	69.7	1.915	
1093.	3.84	34.52	1.05	2.86	27.44	74.3							
1377.	3.14	34.56	1.50	3.09	27.54	65.0							

TEMPERATURE ERROR TEMP AT 300. METERS IS 0.13

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL 12, STATION 36, 25-44 LAT, 147-59W LONG, JAN. 21, 1965, 1300 G.C.T. DRY BULB 21.5 WET BULB 19.8 WIND SPEED 10, DIR. 14 BAR. 16 WEATHER 03 VIS. 6 CLOUD TYPE 8, COVER 6												
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.54	35.15	5.07		24.20	373.0	0.	22.54	35.15	24.20	373.0	0.000
10.	22.54	35.14	5.21	0.22	24.19	374.1	10.	22.54	35.14	24.19	374.1	0.038
48.	22.26	35.21	5.19		24.40	355.7	20.	22.49	35.18	24.23	370.5	0.075
72.	22.10	35.35	5.18	0.21	24.48	349.4	30.	22.42	35.22	24.28	366.0	0.112
95.	21.95	35.30	5.15		24.48	349.8	50.	22.25	35.32	24.41	354.9	0.185
118.	20.44	35.34	5.12		24.79	321.2	75.	22.10	35.34	24.47	350.1	0.274
141.	19.66	35.13	4.84	0.29	24.97	304.6	100.	21.78	35.32	24.54	344.3	0.361
165.	19.01	35.04	4.82	0.35	25.07	295.9	150.	19.35	35.08	25.01	300.9	0.524
179.	18.82	35.06	5.07		25.13	290.3	200.	18.12	34.94	25.22	282.9	0.671
211.	17.52	34.83	5.06		25.28	277.1	250.	14.30	34.37	25.65	241.5	0.803
236.	15.41	34.52	4.84	0.59	25.53	253.2	300.	12.04	34.17	25.95	213.3	0.918
260.	13.67	34.24	4.82	0.75	25.73	234.3	400.	9.07	34.07	26.40	171.5	1.112
283.	12.67	34.20	4.76	0.76	25.86	222.2	500.	6.97	34.02	26.67	145.1	1.272
377.	9.66	34.09	4.76	1.40	26.32	178.9	600.	5.56	34.08	26.90	123.2	1.407
472.	7.49	34.02	4.68		26.60	152.2	700.	4.75	34.19	27.08	106.1	1.523
567.	5.93	34.05	1.84		26.83	129.8	800.	4.36	34.31	27.22	93.7	1.624
755.	4.50	34.26	0.56		27.17	98.4	1000.	3.94	34.46	27.38	79.1	1.799
944.	4.08	34.43	0.86		27.35	82.5	1200.	3.48	34.54	27.50	69.2	1.949
1133.	3.62	34.51	1.20		27.46	72.7						
1420.	2.97	34.56	1.52		27.56	63.3						

CROMWELL 12, STATION 37, 26-27N LAT, 147-59W LONG, JAN. 21, 1965, 2000 G.C.T. DRY BULB 21.6 WET BULB 20.0 WIND SPEED 14, DIR. 17 BAR. 15 WEATHER 15 VIS. 7 CLOUD TYPE 8, COVER 7												
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.OPTH.
0.	22.34	35.24	5.14		24.32	361.1	0.	22.34	35.24	24.32	361.1	0.000
10.	22.35	35.24	5.30		24.32	361.7	10.	22.35	35.24	24.32	361.7	0.036
52.	22.16	35.34	5.06		24.45	351.0	20.	22.32	35.26	24.35	359.8	0.073
77.	22.05	35.35	5.09		24.49	348.2	30.	22.28	35.28	24.37	357.5	0.109
101.	21.93	35.36	5.06		24.53	345.2	50.	22.17	35.33	24.44	351.6	0.180
127.	20.44	35.23	4.91		24.84	316.6	75.	22.06	35.35	24.49	348.4	0.268
153.	19.58	35.14	4.84		25.00	302.3	100.	21.95	35.36	24.53	345.6	0.356
177.	10.66	34.99	4.87		25.12	291.4	150.	19.67	35.15	24.98	303.6	0.519
192.	17.90	34.87	4.89		25.22	282.5	200.	17.47	34.81	25.27	277.3	0.666
226.	15.97	34.61	4.91		25.47	258.5	250.	14.43	34.44	25.68	239.2	0.796
253.	14.21	34.41	4.83		25.71	236.6	300.	11.39	34.12	26.04	204.4	0.908
274.	12.30	34.17	4.65		25.61	217.2	400.	9.27	34.06	26.36	175.0	1.099
304.	11.32	34.13	4.73		26.06	202.9	500.	7.11	34.02	26.65	147.1	1.262
405.	9.14	34.06	4.50		26.37	173.9	600.	5.59	34.06	26.89	124.8	1.399
507.	6.97	34.02	3.69		26.67	145.3	700.	4.79	34.16	27.06	108.7	1.517
608.	5.90	34.07	1.55		26.90	123.3	800.	4.36	34.27	27.19	96.5	1.621
810.	4.34	34.28	0.48		27.20	95.5	1000.	3.80	34.42	27.37	80.2	1.800
1012.	3.78	34.43	0.79		27.38	79.5	1200.	3.36	34.52	27.49	69.7	1.952
1214.	3.33	34.52	1.10		27.49	69.1	1500.	2.77	34.57	27.59	60.6	2.150
1516.	2.74	34.57	1.60		27.59	60.4						

CROMWELL 12, STATION 33, 25-44 LAT, 150-55W LONG, JAN. 22, 1965, 1500 G.C.T. DRY BULB 20.3 WET BULB 16.8 WIND SPEED 20, DIR. 30 BAR. 15 WEATHER 01 VIS. 6 CLOUD TYPE 8, COVER 4												
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	ODYN.OPTH.
0.	22.51	35.23			24.27	366.4	0.	22.51	35.23	24.27	366.4	0.000
9.	22.61	35.23			24.24	369.4	10.	22.61	35.23	24.24	369.6	0.037
20.Δ	22.60	35.23			24.24	369.6	20.	22.60	35.23	24.24	369.6	0.074
30.Δ	22.50	35.25			24.29	365.8	30.	22.50	35.25	24.29	365.8	0.111
50.	22.27	35.23			24.37	358.2	50.	22.27	35.28	24.37	358.2	0.184
74.	22.20	35.29			24.40	356.5	75.	22.18	35.29	24.41	355.8	0.274
99.	21.43	35.31			24.63	335.5	100.	21.39	35.31	24.64	334.5	0.361
124.	20.46	35.26			24.86	314.9	150.	20.06	35.24	24.95	306.8	0.523
151.	20.04	35.24			24.95	306.6	200.	17.35	34.79	25.29	276.0	0.670
174.	18.09	35.04			25.10	293.3	250.	14.87	34.47	25.61	245.5	0.801
188.	17.49	34.39			25.21	283.0	300.	12.26	34.22	25.95	213.4	0.917
223.	16.25	34.63			25.42	263.2	400.	9.09	34.07	26.40	171.6	1.111
249.	14.93	34.48			25.61	246.3	500.	6.88	34.02	26.69	143.9	1.270
275.	13.50	34.33			25.81	227.2	600.	5.50	34.11	26.93	120.4	1.404
300.	12.26	34.22			25.95	213.4	700.	4.76	34.22	27.11	104.0	1.517
401.	9.07	34.07			26.40	171.3	800.	4.39	34.33	27.23	92.4	1.617
501.	6.86	34.02			26.69	143.7	1000.	4.03	34.48	27.39	78.8	1.790
602.	5.49	34.11			26.94	120.0	1200.	3.48	34.51	27.47	71.5	1.942
801.	4.39	34.33			27.23	92.3	1500.	2.78	34.57	27.58	60.8	2.143
1001.	4.03	34.48			27.39	78.7	2000.	2.14	34.62	27.68	52.0	2.430
1200.	3.49	34.51			27.47	71.5	2500.	1.78	34.65	27.73	47.2	2.682
1500.	2.78	34.57			27.58	60.8	3000.	1.58	34.67	27.76	44.7	2.917
2020.	2.12	34.62			27.68	51.8	4000.	1.47	34.69	27.78	44.5	3.374
2504.	1.71	34.65			27.73	47.2						
3010.	1.58	34.67			27.76	44.7						
4041.	1.48	34.69			27.78	44.7						

FROM BT DATA

Table 2.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL 12, STATION 39, 25- ON LAT, 154- ON LONG, JAN. 23, 1965, 0900 G.C.T.					WIND SPEED 18, DIR. 03 BAR. 23 WEATHER 02 VIS. CLOUD TYPE , COVER									
DRY BULB 21.0 WET BULB 16.2														
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.30	35.01	5.12		23.87	403.9	0.	23.30	35.01	23.87	403.9	0.000		
10.	23.33	35.02	5.15		23.87	404.4	10.	23.33	35.02	23.87	404.4	0.041		
30.Δ	23.32	35.02			23.88	404.9	20.	23.33	35.02	23.87	404.7	0.081		
51.	23.30	35.02	5.11		23.38	405.1	30.	23.32	35.02	23.88	404.9	0.122		
77.	23.35	35.04	5.02		23.88	406.1	50.	23.30	35.02	23.88	405.1	0.204		
102.	22.62	35.23	5.06		24.24	373.3	75.	23.36	35.03	23.88	406.6	0.306		
128.	21.63	35.22	5.03		24.51	348.3	100.	22.70	35.22	24.20	376.3	0.405		
154.	20.37	35.15	5.06		24.80	321.6	150.	20.55	35.16	24.76	325.3	0.581		
178.	19.73	35.14	4.92		24.96	306.9	200.	18.52	34.97	25.14	290.6	0.737		
192.	18.94	35.03	4.78		25.08	295.8	250.	15.62	34.56	25.51	255.4	0.874		
227.	17.07	34.73	4.75		25.32	273.1	300.	12.63	34.23	25.89	219.6	0.974		
255.	15.30	34.52	4.73		25.55	251.4	400.	9.15	34.07	26.39	172.3	1.192		
280.	13.76	34.36	4.74		25.76	231.8	500.	6.78	34.02	26.70	142.5	1.351		
305.	12.36	34.20	4.77		25.92	216.9	600.	5.44	34.09	26.92	121.0	1.484		
406.	9.02	34.09	4.11		26.42	169.9	700.	4.74	34.21	27.10	104.7	1.598		
508.	6.63	34.02	3.06		26.72	140.6	800.	4.35	34.33	27.23	92.2	1.697		
610.	5.35	34.10	1.33		26.94	119.2	1000.	3.90	34.48	27.41	77.0	1.869		
812.	4.33	34.14	0.68		27.25	91.0	1200.	3.43	34.53	27.49	69.5	2.017		
1014.	3.38	34.49	1.44		27.41	76.3	1500.	2.85	34.58	27.59	60.9	2.215		
1215.	3.39	34.53	1.33		27.50	69.1								
1517.	2.82	34.53	1.64		27.59	60.6								

CROMWELL 12, STATION 40, 24-56M LAT, 156-58W LONG, JAN. 24, 1965, 0000 G.C.T.					WIND SPEED 25, DIR. 09 BAR. 22 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 5									
DRY BULB 22.9 WET BULB 17.2														
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.16	35.15			24.02	389.9	0.	23.16	35.15	24.02	389.9	0.000		
10.	23.19	35.12			23.99	393.3	10.	23.19	35.12	23.99	393.3	0.039		
30.Δ	23.17	35.12			24.00	393.5	20.	23.19	35.11	23.99	394.0	0.079		
51.	23.16	35.13			24.01	393.3	30.	23.17	35.12	24.00	393.5	0.119		
76.	23.12	35.14			24.03	392.5	50.	23.16	35.13	24.01	393.4	0.198		
101.	22.71	35.24			24.22	375.0	75.	23.13	35.14	24.02	392.7	0.297		
125.	21.65	35.16			24.46	353.1	100.	22.74	35.24	24.21	375.9	0.394		
150.	20.76	35.10			24.65	335.0	150.	20.76	35.10	24.65	335.0	0.573		
175.	18.73	34.91			25.04	298.9	200.	17.17	34.76	25.31	273.4	0.726		
190.	17.94	34.85			25.19	284.8	250.	13.73	34.40	25.80	227.2	0.852		
223.	15.31	34.55			25.58	248.5	300.	12.33	34.28	25.99	210.1	0.963		
251.	13.68	34.40			25.81	226.5	400.	8.88	34.07	26.43	168.3	1.154		
276.	12.82	34.32			25.92	216.2	500.	6.64	34.02	26.72	140.6	1.310		
311.	12.12	34.27			26.02	207.4	600.	5.57	34.08	26.90	123.4	1.443		
400.	8.80	34.07			26.73	168.3	700.	4.89	34.19	27.07	107.4	1.559		
501.	6.62	34.02			26.72	140.4	800.	4.44	34.32	27.22	93.8	1.661		
601.	5.36	34.08			26.90	123.2	1000.	3.85	34.47	27.40	77.4	1.834		
801.	4.44	34.32			27.22	93.7	1200.	3.30	34.53	27.50	67.9	1.982		
1002.	3.85	34.47			27.40	77.3	1500.	2.73	34.57	27.59	60.2	2.176		
1202.	3.79	34.53			27.50	67.8								
1503.	2.73	34.57			27.59	60.2								

CROMWELL 12, STATION 41, 23-30N LAT, 156-59W LONG, JAN. 24, 1965, 1000 G.C.T.					WIND SPEED 25, DIR. 07 BAR. 21 WEATHER 02 VIS. CLOUD TYPE , COVER									
DRY BULB 23.0 WET BULB 19.9														
DEPTH	TEMP.	SAL.	XY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN. DPTH.		
0.	23.29	35.12			23.96	395.7	0.	23.29	35.12	23.96	395.7	0.000		
11.	23.31	35.12			23.96	396.7	10.	23.31	35.12	23.96	396.6	0.040		
30.Δ	23.30	35.12			23.96	397.1	20.	23.31	35.12	23.96	397.0	0.080		
52.	23.29	35.13			23.97	397.0	30.	23.30	35.12	23.96	397.1	0.120		
77.	23.34	35.13			23.95	399.3	50.	23.29	35.13	23.97	397.0	0.200		
102.	23.63	35.20			24.10	386.7	75.	23.34	35.13	23.95	399.4	0.300		
127.	21.93	35.19			24.40	358.5	100.	23.08	35.19	24.08	388.2	0.399		
153.	20.52	35.16			24.76	324.6	150.	20.68	35.17	24.73	328.2	0.580		
176.	19.65	35.07			24.93	309.9	200.	18.34	34.90	25.13	290.8	0.736		
191.	18.84	34.97			25.06	297.7	250.	15.23	34.53	25.58	249.0	0.872		
227.	16.75	34.70			25.36	269.4	300.	12.67	34.27	25.92	217.3	0.990		
254.	14.45	34.50			25.62	245.4	400.	9.38	34.13	26.39	172.1	1.166		
279.	13.22	34.32			25.84	224.0	500.	6.97	34.08	26.72	140.8	1.344		
306.	12.58	34.27			25.93	216.0	600.	5.49	34.14	26.96	117.7	1.474		
405.	9.20	34.12			26.42	169.8	700.	4.84	34.25	27.12	102.8	1.586		
507.	6.84	34.08			26.74	139.1	800.	4.59	34.36	27.24	92.5	1.685		
608.	5.40	34.15			26.98	116.1	1000.	4.06	34.49	27.40	78.0	1.857		
810.	4.58	34.37			27.25	91.8	1200.	3.53	34.54	27.49	70.0	2.007		
1013.	4.03	34.50			27.41	77.4	1500.	2.84	34.58	27.59	60.7	2.206		
1213.	3.50	34.54			27.49	69.7								
1516.	2.80	34.58			27.59	60.4								

TEMPERATURE ERROR FROM AT 700. METERS IS 0.10

Table 2.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 12, STATION 42, 22- ON LAT, 157- 1W LONG, JAN. 24, 1965, 1900 G.C.T.												
DRY BULB 23.4		WET BULB 21.5		WIND SPEED 26, DIR. 07		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 5
DEPTH	TEMP.	SAL.	DXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.69	34.97			23.73	417.4	0.	23.68	34.97	23.73	417.4	0.000
10.	23.74	34.96			23.71	420.1	10.	23.74	34.96	23.71	420.1	0.042
52.	23.70	34.99			23.74	418.5	20.	23.75	34.96	23.71	420.8	0.085
77.	23.69	35.02			23.77	417.0	30.	23.75	34.97	23.71	420.8	0.127
102.	23.65	35.02			23.78	416.9	50.	23.71	34.99	23.74	418.8	0.212
129.	22.75	35.24			24.21	377.1	75.	23.69	35.02	23.77	417.1	0.317
154.	20.09	35.08			24.82	319.5	100.	23.67	35.02	23.77	417.5	0.422
179.	19.45	35.04			24.95	307.2	150.	20.51	35.11	24.73	327.6	0.610
194.	18.01	34.86			25.18	286.4	200.	17.65	34.81	25.23	281.2	0.763
228.	16.23	34.63			25.43	262.9	250.	14.92	34.48	25.61	245.8	0.896
255.	14.61	34.45			25.65	242.0	300.	12.17	34.21	25.96	212.6	1.012
281.	13.05	34.29			25.85	222.9	400.	9.19	34.10	26.40	171.1	1.205
305.	11.96	34.19			25.99	210.2	500.	6.94	34.09	26.73	139.7	1.362
406.	9.06	34.10			26.42	169.0	600.	5.70	34.17	26.95	118.5	1.492
508.	6.79	34.09			26.75	137.6	700.	5.11	34.30	27.13	102.2	1.604
610.	5.62	34.18			26.97	116.7	800.	4.78	34.43	27.27	90.0	1.701
812.	4.76	34.44			27.28	88.8	1000.	4.07	34.50	27.40	77.8	1.871
1016.	4.02	34.50			27.41	77.3	1200.	3.49	34.53	27.48	70.4	2.021
1217.	3.45	34.53			27.49	69.8	1500.	2.86	34.58	27.58	61.2	2.221
1519.	2.43	34.54			27.59	60.8						

Table 3.--Original and derived oceanographic data for Townsend Cromwell cruise 13

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 13, STATION 1, 20-35N LAT, 157-16W LONG, FEB. 9, 1965, 0500 G.C.T.													
ORY BULB 23.8		WET BULB 19.7		WIND SPEED 08, DIR. 17		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	23.82	34.87			23.62	428.5	0.	23.82	34.87	23.62	428.5	0.000	
11.	23.84	34.87			23.61	429.5	10.	23.84	34.87	23.61	429.5	0.043	
30.6	23.76	34.88			23.64	427.3	20.	23.82	34.87	23.62	429.3	0.086	
50.	23.52	34.96			23.77	415.5	30.	23.76	34.88	23.64	427.3	0.130	
74.	23.39	35.01			23.85	409.2	50.	23.52	34.96	23.77	415.5	0.215	
98.	22.61	35.09			24.13	382.9	75.	23.36	35.01	23.86	408.3	0.318	
123.	21.69	35.06			24.37	361.3	100.	22.54	35.09	24.15	381.0	0.418	
147.	20.96	35.05			24.56	343.7	150.	20.95	35.06	24.57	343.1	0.600	
169.	20.52	35.06			24.69	332.4	200.	16.88	34.72	25.34	270.2	0.755	
194.	17.56	34.79			25.24	280.4	250.	13.27	34.34	25.85	222.8	0.879	
217.	15.21	34.53			25.58	247.7	300.	10.91	34.18	26.17	191.9	0.984	
241.	13.96	34.40			25.75	231.9	400.	8.24	34.18	26.61	150.4	1.156	
265.	12.18	34.25			25.99	208.9	500.	6.64	34.21	26.86	126.9	1.296	
289.	11.28	34.19			26.11	197.4	600.	5.73	34.31	27.06	108.7	1.415	
384.	8.58	34.18			26.56	155.2	700.	5.13	34.39	27.20	95.8	1.519	
480.	6.89	34.19			26.82	131.2	800.	4.72	34.46	27.30	86.9	1.611	
574.	5.92	34.28			27.02	112.7	1000.	4.07	34.52	27.42	76.1	1.776	
765.	4.86	34.44			27.27	89.6	1200.	3.52	34.56	27.50	68.5	1.922	
956.	4.20	34.51			27.40	78.2							
1146.	3.67	34.55			27.48	70.4							
1431.	3.01	34.56			27.56	63.8							

CROMWELL 13, STATION 2, 18-59N LAT, 156-57W LONG, FEB. 9, 1965, 1500 G.C.T.												
ORY BULB 23.2		WET BULB 19.4		WIND SPEED 08, DIR. 18		BAR. 18		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	24.36	34.46			23.15	473.3	0.	24.36	34.46	23.15	473.3	0.000
10.	24.39	34.48			23.15	473.1	10.	24.39	34.48	23.15	473.1	0.048
49.	24.47	34.51			23.15	474.8	20.	24.41	34.49	23.16	473.3	0.095
74.	24.52	34.52			23.14	476.4	30.	24.43	34.50	23.16	473.7	0.143
98.	23.71	34.88			23.66	428.5	50.	24.48	34.51	23.15	475.3	0.239
124.	22.22	35.00			24.18	379.8	75.	24.50	34.53	23.16	474.9	0.358
149.	21.37	35.10			24.49	350.9	100.	23.60	34.89	23.70	424.3	0.472
173.	19.53	34.99			24.90	312.6	150.	21.30	35.10	24.51	349.3	0.666
198.	17.92	34.84			25.19	285.3	200.	17.77	34.83	25.21	283.0	0.826
222.	16.08	34.65			25.48	257.9	250.	13.89	34.39	25.75	231.8	0.956
247.	14.15	34.41			25.72	235.2	300.	11.42	34.23	26.12	197.5	1.064
271.	12.34	34.26			25.97	211.3	400.	7.97	34.16	26.64	147.7	1.238
297.	11.53	34.23			26.10	199.2	500.	6.13	34.23	26.95	118.6	1.372
394.	8.13	34.16			26.62	150.0	600.	5.50	34.35	27.12	102.7	1.484
495.	6.18	34.22			26.94	119.6	700.	5.07	34.44	27.24	91.8	1.582
594.	5.53	34.34			27.11	103.5	800.	4.75	34.49	27.32	84.6	1.672
790.	4.78	34.49			27.32	85.2	1000.	4.11	34.51	27.41	77.3	1.836
989.	4.14	34.51			27.40	77.7	1200.	3.55	34.54	27.49	70.2	1.985
1185.	3.58	34.54			27.48	70.4						
1481.	2.93	34.58			27.58	61.7						

CROMWELL 13, STATION 3, 17-27N LAT, 157- 0W LONG, FEB. 9, 1965, 2300 G.C.T.												
ORY BULB 24.5		WET BULB 20.2		WIND SPEED 10, DIR. 03		BAR. 18		WEATHER 01		VIS. 8		CLOUD TYPE 8, COVER 1
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	25.19	34.22			22.72	514.5	0.	25.19	34.22	22.72	514.5	0.000
10.	24.86	34.21			22.81	506.1	10.	24.86	34.21	22.81	506.1	0.051
20.6	24.80	34.21			22.83	504.7	20.	24.80	34.21	22.83	504.7	0.102
30.6	24.80	34.21			22.83	505.1	30.	24.80	34.21	22.83	505.1	0.153
51.	24.80	34.21			22.83	505.9	50.	24.80	34.21	22.83	505.9	0.255
76.	24.79	34.21			22.83	506.6	75.	24.81	34.20	22.82	507.4	0.383
100.	23.28	34.78			23.71	423.8	100.	23.28	34.78	23.71	423.8	0.500
125.	21.85	35.04			24.31	367.1	150.	18.92	34.76	24.87	313.8	0.686
151.	18.79	34.74			24.89	311.8	200.	13.54	34.32	25.78	227.9	0.822
175.	15.73	34.49			25.44	260.5	250.	10.98	34.29	26.25	183.9	0.926
201.	13.47	34.32			25.79	226.9	300.	9.57	34.29	26.49	161.2	1.013
225.	12.10	34.28			26.03	204.2	400.	7.96	34.39	26.82	130.6	1.160
251.	10.94	34.29			26.25	183.2	500.	7.36	34.46	26.96	118.4	1.286
276.	10.22	34.26			26.36	173.6	600.	6.26	34.46	27.11	104.3	1.399
301.	9.54	34.29			26.49	160.7	700.	5.59	34.48	27.21	95.4	1.499
400.	7.96	34.39			26.82	130.6	800.	5.14	34.50	27.28	89.1	1.593
501.	7.36	34.46			26.96	118.3	1000.	4.38	34.53	27.39	79.4	1.763
602.	6.24	34.46			27.12	104.1	1200.	3.68	34.56	27.49	70.3	1.915
801.	5.14	34.50			27.28	89.1	1500.	2.91	34.59	27.59	60.9	2.115
1001.	4.38	34.53			27.39	79.4						
1201.	3.68	34.56			27.49	70.3						
1502.	2.91	34.59			27.59	60.9						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 4, 16- IN LAT, 156-59W LONG, FEB. 10, 1965, 1200 G.C.T.													
DRY BULB 24.2		WET BULB 20.9		WIND SPEED 12, DIR. 03		BAR. 17		WEATHER 03		VIS. 7		CLOUD TYPE 4, COVER 3	
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	24.74	34.23			22.86	500.8	0.	24.74	34.23	22.86	500.8	0.000	
10.	24.76	34.23			22.85	501.8	10.	24.76	34.23	22.85	501.8	0.050	
30. _Δ	24.76	34.24			22.86	501.8	20.	24.76	34.23	22.86	501.9	0.101	
51.	24.77	34.25			22.87	502.2	30.	24.76	34.24	22.86	501.8	0.152	
76.	24.86	34.29			22.87	502.9	50.	24.77	34.25	22.87	502.2	0.253	
100.	19.12	34.72			24.8C	319.5	75.	24.92	34.28	22.85	504.8	0.380	
125.	17.66	34.75			25.18	283.4	100.	19.12	34.72	24.80	319.5	0.483	
151.	14.40	34.30			25.58	245.6	150.	14.53	34.32	25.57	246.9	0.626	
177.	12.51	34.23			25.91	214.3	200.	11.41	34.23	26.12	194.9	0.737	
202.	11.33	34.23			26.14	193.4	250.	10.12	34.35	26.44	165.0	0.828	
226.	10.52	34.27			26.31	176.9	300.	9.72	34.49	26.62	149.0	0.907	
251.	10.11	34.35			26.45	164.6	400.	8.28	34.48	26.84	128.7	1.048	
277.	10.10	34.45			26.53	157.7	500.	7.14	34.47	27.00	114.4	1.170	
302.	9.68	34.49			26.63	148.3	600.	6.17	34.46	27.13	103.0	1.280	
402.	8.26	34.48			26.85	128.5	700.	5.40	34.46	27.22	94.0	1.380	
502.	7.12	34.47			27.01	114.1	800.	4.82	34.48	27.30	86.6	1.471	
603.	6.14	34.46			27.13	102.7	1000.	4.16	34.55	27.43	75.2	1.635	
803.	4.81	34.48			27.31	86.4	1200.	3.54	34.56	27.51	68.5	1.780	
1003.	4.15	34.55			27.43	75.0	1500.	2.78	34.61	27.62	57.8	1.972	
1202.	3.53	34.56			27.51	68.5							
1503.	2.77	34.61			27.62	57.7							

CROMWELL 13, STATION 5, 14-27N LAT, 156-56W LONG, FEB. 10, 1965, 2100 G.C.T.															
DRY BULB 25.3		WET BULB 22.0		WIND SPEED 20, DIR. 05		BAR. 15		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 4			
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.72	34.26			22.89	498.1	0.	24.72	34.26	22.89	498.1	0.000			
11.	24.72	34.24			22.87	499.9	10.	24.72	34.24	22.87	499.8	0.050			
30.	24.72	34.25			22.88	499.9	20.	24.72	34.24	22.87	500.2	0.101			
51.	24.69	34.26			22.90	499.2	30.	24.72	34.25	22.88	499.9	0.151			
76.	22.81	34.91			23.94	400.5	50.	24.71	34.25	22.89	500.1	0.252			
101.	20.48	35.01			24.66	332.6	75.	22.91	34.88	23.89	405.2	0.366			
125.	18.86	34.96			25.05	296.7	100.	20.57	35.01	24.64	334.7	0.459			
151.	16.31	34.62			25.40	263.0	150.	16.41	34.64	25.39	264.2	0.610			
174.	14.22	34.37			25.67	237.5	200.	12.16	34.29	26.03	204.0	0.728			
201.	12.09	34.29			26.04	202.7	250.	9.64	34.32	26.50	159.1	0.819			
225.	10.88	34.35			26.31	177.2	300.	9.45	34.52	26.69	142.0	0.895			
250.	9.64	34.32			26.50	159.1	400.	8.08	34.54	26.92	121.3	1.028			
275.	9.18	34.39			26.63	147.0	500.	7.12	34.52	27.04	110.4	1.145			
299.	9.45	34.52			26.69	142.3	600.	6.41	34.53	27.15	101.1	1.252			
399.	8.09	34.54			26.92	121.4	700.	5.74	34.53	27.24	93.4	1.350			
498.	7.14	34.52			27.04	110.6	800.	5.17	34.53	27.30	87.3	1.442			
598.	6.42	34.53			27.15	101.3	1000.	4.49	34.55	27.40	79.2	1.610			
796.	5.19	34.53			27.30	87.5	1200.	3.85	34.57	27.48	71.5	1.763			
996.	4.50	34.55			27.40	79.3									
1195.	3.86	34.57			27.48	71.7									
1493.	3.02	34.61			27.59	60.7									

CROMWELL 13, STATION 6, 13- IN LAT, 157- 0W LONG, FEB. 11, 1965, 0600 G.C.T.															
DRY BULB 25.2		WET BULB 22.3		WIND SPEED 22, DIR. 05		BAR. 13		WEATHER 02		VIS. 7		CLOUD TYPE 8, COVER 3			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.			
0.	24.93	34.29			22.85	501.9	0.	24.93	34.29	22.85	501.9	0.000			
10.	24.93	34.29			22.85	502.3	10.	24.93	34.29	22.85	502.3	0.051			
30.	24.93	34.29			22.85	503.1	20.	24.94	34.29	22.85	502.9	0.101			
51.	24.83	34.29			22.88	501.0	30.	24.93	34.29	22.85	503.1	0.152			
76.	24.16	34.99			23.61	432.4	50.	24.84	34.28	22.87	501.7	0.253			
101.	21.44	35.14			24.50	348.1	75.	24.21	34.96	23.57	436.0	0.371			
126.	18.61	34.89			25.05	295.7	100.	21.57	35.14	24.47	351.2	0.470			
152.	15.16	34.48			25.55	248.3	150.	15.43	34.51	25.52	251.7	0.622			
176.	12.35	34.29			25.99	206.9	200.	11.32	34.47	26.32	175.5	0.730			
201.	11.30	34.48			26.34	174.5	250.	10.88	34.65	26.54	155.9	0.814			
227.	11.08	34.60			26.47	162.4	300.	9.99	34.68	26.72	139.4	0.888			
252.	10.86	34.65			26.55	155.4	400.	8.71	34.59	26.87	127.1	1.022			
278.	10.47	34.67			26.63	147.8	500.	7.75	34.57	26.99	115.8	1.145			
302.	9.94	34.68			26.73	138.6	600.	6.86	34.54	27.10	106.6	1.257			
403.	8.69	34.59			26.87	127.0	700.	6.12	34.53	27.19	98.3	1.361			
504.	7.71	34.57			27.00	115.4	800.	5.51	34.54	27.27	90.9	1.456			
603.	6.83	34.54			27.10	106.4	1000.	4.61	34.56	27.39	80.1	1.630			
803.	5.49	34.54			27.27	90.7	1200.	3.93	34.58	27.48	71.9	1.784			
1004.	4.60	34.56			27.39	79.9	1500.	3.14	34.61	27.58	62.2	1.988			
1204.	3.92	34.58			27.48	71.8									
1504.	3.13	34.61			27.58	62.1									

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA					INTERPOLATED DATA				
CROMWELL DRY BULB 24.4		13, STATION	7, 11-30N LAT, 157- 0W LONG, FEB. 11, 1965, 1500 G.C.T.		WIND SPEED 26, DIR. 04		BAR. 11	WEATHER 01	VIS. 7	CLOUD TYPE , COVER 0				
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	24.92	34.20			22.78	508.1	0.	24.92	34.20	22.78	508.1	0.000		
10.	24.96	34.20			22.77	509.7	10.	24.96	34.20	22.77	509.7	0.051		
30. ⁰	24.96	34.20			22.77	510.5	20.	24.97	34.20	22.77	510.3	0.103		
50.	24.96	34.20			22.77	511.2	30.	24.96	34.20	22.77	510.5	0.154		
75.	22.33	34.71			23.93	401.9	50.	24.96	34.20	22.77	511.2	0.257		
100.	20.06	34.89			24.68	330.6	75.	22.33	34.71	23.93	401.9	0.372		
125.	16.26	34.58			25.38	264.0	100.	20.06	34.89	24.68	330.6	0.464		
151.	11.91	34.26			26.05	200.4	150.	12.05	34.27	26.03	202.3	0.598		
174.	10.83	34.34			26.31	175.9	200.	10.93	34.56	26.47	162.0	0.690		
201.	10.95	34.57			26.47	161.7	250.	10.65	34.70	26.62	148.0	0.768		
226.	10.98	34.70			26.56	153.2	300.	9.95	34.68	26.73	138.7	0.841		
250.	10.65	34.70			26.62	148.0	400.	8.98	34.63	26.85	128.6	0.976		
275.	10.29	34.70			26.69	142.4	500.	8.06	34.58	26.96	119.8	1.101		
300.	9.95	34.68			26.73	138.7	600.	7.17	34.56	27.07	109.7	1.217		
400.	8.98	34.63			26.85	128.6	700.	6.39	34.55	27.17	101.1	1.323		
501.	8.05	34.58			26.96	119.7	800.	5.70	34.54	27.25	93.5	1.422		
601.	7.16	34.56			27.07	109.6	1000.	4.56	34.55	27.39	80.0	1.597		
800.	5.70	34.54			27.25	93.5	1200.	3.78	34.57	27.49	70.8	1.750		
992.	4.59	34.55			27.39	80.4								
1187.	3.89	34.57			27.48	72.0								
1483.	3.07	34.60			27.58	62.0								

CROMWELL DRY BULB 24.9		13, STATION	7A, 10- 7N LAT, 154- 4W LONG, FEB. 12, 1965, 1200 G.C.T.		WIND SPEED 19, DIR. 04		BAR. 12	WEATHER 03	VIS. 7	CLOUD TYPE 4, COVER 6				
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	25.08	34.24	5.13		22.76	509.9	0.	25.08	34.24	22.76	509.9	0.000		
10.	25.08	34.23	5.14		22.76	511.0	10.	25.08	34.23	22.76	511.0	0.051		
20. ⁰	25.08	34.23			22.76	511.4	20.	25.08	34.23	22.76	511.4	0.103		
30. ⁰	25.02	34.24			22.78	509.3	30.	25.02	34.24	22.78	509.3	0.154		
51.	21.57	34.80	5.51		24.21	374.2	50.	21.78	34.77	24.13	381.8	0.244		
77.	18.31	34.80	4.56		25.06	293.4	75.	18.56	34.82	25.01	297.9	0.330		
101.	14.12	34.41	3.47		25.73	230.5	100.	14.28	34.43	25.70	232.7	0.397		
126.	12.00	34.50	1.42		26.22	183.8	150.	11.45	34.70	26.48	159.4	0.495		
152.	11.44	34.72	0.23		26.50	158.2	200.	10.73	34.72	26.63	146.8	0.572		
177.	11.03	34.72	0.56		26.57	151.5	250.	10.07	34.71	26.73	137.3	0.644		
202.	10.70	34.72	0.47		26.63	146.3	300.	9.69	34.69	26.78	133.7	0.712		
227.	10.31	34.72	0.70		26.70	140.2	400.	8.88	34.65	26.88	125.5	0.843		
252.	10.05	34.71	0.56		26.74	137.2	500.	7.84	34.60	27.01	114.9	0.965		
278.	9.81	34.70	0.35		26.77	134.5	600.	7.03	34.57	27.10	106.8	1.077		
303.	9.68	34.69	0.35		26.78	133.6	700.	6.27	34.56	27.19	98.9	1.180		
402.	8.86	34.65	0.47		26.89	125.3	800.	5.60	34.55	27.27	91.4	1.277		
504.	7.80	34.60	0.55		27.01	114.5	1000.	4.56	34.56	27.40	79.4	1.449		
605.	6.99	34.57	0.61		27.10	106.5	1200.	3.77	34.59	27.51	69.2	1.600		
806.	5.56	34.55	0.70		27.27	91.0	1500.	2.99	34.62	27.60	59.7	1.796		
1006.	4.53	34.56	1.21		27.40	79.1								
1205.	3.75	34.59			27.51	69.0								
1507.	2.98	34.62	1.89		27.61	59.6								

CROMWELL DRY BULB 25.2		13, STATION	8, 11-34N LAT, 154- 2W LONG, FEB. 12, 1965, 2200 G.C.T.		WIND SPEED 12, DIR. 03		BAR. 11	WEATHER 02	VIS. 7	CLOUD TYPE 8, COVER 8				
DEPTH	TEMP.	SAL.	DX.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.		
0.	25.28	34.36	5.25		22.79	507.1	0.	25.28	34.36	22.79	507.1	0.000		
9.	25.28	34.36	5.06		22.79	507.4	10.	25.28	34.36	22.79	507.5	0.051		
30. ⁰	25.28	34.36			22.79	508.2	20.	25.28	34.36	22.79	507.9	0.102		
49.	25.27	34.36	4.91		22.80	508.7	30.	25.28	34.36	22.79	508.2	0.153		
74.	21.60	34.84	5.26		24.23	373.0	50.	25.19	34.38	22.84	504.8	0.255		
97.	15.81	34.53	5.31		25.45	257.0	75.	21.34	34.83	24.29	366.7	0.365		
121.	12.98	34.30	4.00		25.87	216.7	100.	15.32	34.49	25.53	249.5	0.443		
146.	11.76	34.39	1.93		26.18	188.0	150.	11.70	34.38	26.19	187.4	0.553		
169.	11.12	34.50	1.08		26.38	169.1	200.	10.23	34.73	26.72	137.7	0.635		
174.	10.74	34.61	0.53		26.54	154.5	250.	10.02	34.64	26.69	141.4	0.705		
217.	10.39	34.64	0.34		26.62	147.3	300.	9.44	34.63	26.77	134.3	0.775		
242.	10.07	34.64	0.26		26.68	142.4	400.	8.46	34.61	26.91	122.3	0.904		
267.	9.90	34.65	0.23		26.72	139.4	500.	7.56	34.57	27.02	113.4	1.023		
291.	9.55	34.63	0.27		26.76	135.6	600.	6.75	34.55	27.12	104.5	1.133		
389.	8.57	34.61	0.54		26.90	123.4	700.	5.97	34.54	27.21	95.8	1.234		
486.	7.68	34.57	0.73		27.00	114.6	800.	5.33	34.54	27.29	88.6	1.328		
584.	6.88	34.55	0.56		27.10	106.1	1000.	4.52	34.55	27.40	79.5	1.498		
778.	5.44	34.54	1.00		27.28	89.8	1200.	3.82	34.57	27.48	71.3	1.650		
975.	4.62	34.55	1.17		27.38	80.6								
1170.	3.91	34.57	1.34		27.48	72.1								
1466.	3.10	34.59	1.82		27.57	63.0								

TEMPERATURE ERROR TERM AT 200. METERS IS 0.22
SALINITY ERROR TERM AT 200. METERS IS 0.06

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 9, 12-59N LAT, 154- 0W LONG, FEB. 13, 1965, 0600 G.C.T. DRY BULB 25.1 WET BULB 22.6 WIND SPEED 19, DIR. 05 BAR. 14 WEATHER 03 VIS. 7 CLOUD TYPE 9, COVER 7												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	24.72	34.09	5.25		22.76	510.3	0.	24.72	34.09	22.76	510.3	0.000
10.	24.74	34.20	5.31		22.84	503.3	10.	24.74	34.20	22.84	503.3	0.051
49.	24.63	34.20	5.19		22.87	501.7	20.	24.72	34.23	22.86	501.3	0.102
76.	24.64	34.29	5.14		22.94	496.5	30.	24.69	34.23	22.88	500.4	0.152
100.	18.41	34.58	4.56		24.87	312.6	50.	24.70	34.20	22.85	503.6	0.253
124.	14.92	34.43	4.21		25.57	246.1	75.	24.71	34.28	22.91	498.0	0.379
150.	12.35	34.26	3.28		25.97	208.5	100.	18.41	34.58	24.67	312.6	0.482
173.	10.88	34.26	2.75		26.24	182.6	150.	12.35	34.26	25.97	208.5	0.613
198.	10.51	34.38	1.75		26.40	168.0	200.	10.48	34.39	26.41	166.9	0.708
222.	10.16	34.46	1.09		26.52	156.8	250.	9.80	34.49	26.61	148.9	0.787
246.	9.82	34.49	0.78		26.60	149.5	300.	9.06	34.48	26.72	139.1	0.860
273.	9.49	34.51	0.84		26.67	143.1	400.	8.10	34.52	26.90	123.1	0.992
297.	9.10	34.48	0.70		26.72	139.6	500.	7.28	34.51	27.01	113.5	1.112
396.	8.14	34.52	0.45		26.90	123.6	600.	6.53	34.49	27.10	105.7	1.222
496.	7.31	34.51	0.44		27.01	113.8	700.	5.84	34.51	27.20	96.7	1.324
594.	6.57	34.49	0.55		27.10	106.3	800.	5.28	34.53	27.29	88.5	1.418
792.	5.31	34.53	1.23		27.29	89.0	1000.	4.55	34.56	27.40	79.2	1.588
990.	4.59	34.56	1.15		27.39	79.7	1200.	3.85	34.58	27.49	71.2	1.740
1190.	3.84	34.57	1.31		27.48	71.4						
1491.	3.02	34.59	1.85		27.58	62.1						

CROMWELL 13, STATION 10, 14-31N LAT, 154- 0W LONG, FEB. 13, 1965, 1600 G.C.T.												
DRY BULB 24.2		WET BULB 22.0		WIND SPEED 24, DIR. 08		BAR. 12		WEATHER 02		VIS. 5		CLOUD TYPE , COVER 8
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	CYN.OPTH.
0.	24.68	34.20	5.70		22.86	501.2	0.	24.68	34.20	22.86	501.2	0.000
10.	24.70	34.19	5.55		22.84	502.9	10.	24.70	34.19	22.84	502.9	0.051
50.	24.70	34.20	5.25		22.85	503.7	20.	24.71	34.19	22.84	503.5	0.101
74.	24.71	34.20	5.15		22.85	504.9	30.	24.71	34.19	22.84	503.8	0.152
100.	23.84	34.48	5.18		23.32	461.0	50.	24.70	34.20	22.85	503.7	0.253
124.	21.21	34.90	5.29		24.38	360.2	75.	24.70	34.21	22.85	504.4	0.380
149.	17.56	34.74	4.59		25.20	282.6	100.	23.84	34.48	23.32	461.0	0.502
173.	13.11	34.31	3.23		25.86	219.8	150.	17.35	34.72	25.23	279.2	0.689
199.	11.94	34.34	2.41		26.11	196.2	200.	11.91	34.34	26.12	195.5	0.808
224.	11.15	34.39	1.76		26.29	179.0	250.	10.34	34.42	26.46	163.7	0.899
248.	10.38	34.41	1.52		26.45	164.7	300.	9.12	34.41	26.66	145.2	0.977
274.	9.91	34.46	1.21		26.57	153.7	400.	8.04	34.48	26.88	125.2	1.113
298.	9.16	34.41	1.22		26.65	145.7	500.	6.98	34.49	27.04	110.5	1.232
397.	8.08	34.48	0.57		26.87	125.7	600.	6.26	34.51	27.15	100.6	1.339
497.	7.00	34.49	0.51		27.04	110.9	700.	5.54	34.51	27.25	92.3	1.436
595.	6.30	34.51	0.54		27.15	101.1	800.	4.94	34.51	27.32	85.7	1.526
794.	4.96	34.51	0.90		27.31	86.0	1000.	4.34	34.55	27.42	77.2	1.691
990.	4.38	34.55	1.01		27.41	77.8	1200.	3.70	34.59	27.51	68.6	1.839
1108.	3.67	34.59	1.33		27.52	67.8						
1486.	2.98	34.61	1.77		27.60	60.2						

CROMWELL 13, STATION 11, 16- ON LAT, 153-59W LONG, FEB. 14, 1965, 0100 G.C.T.												
DRY BULB 24.4		WET BULB 21.8		WIND SPEED 13, DIR. 00		BAR. 15		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 9
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	SYN.OPTH.
0.	24.15	33.85	5.32		22.75	511.4	0.	24.15	33.85	22.75	511.4	0.000
11.	24.16	33.84	5.37		22.74	512.8	10.	24.16	33.84	22.74	512.9	0.052
30.Δ	24.08	33.96			22.85	502.6	20.	24.13	33.89	22.78	508.9	0.103
51.	23.98	34.08	5.21		22.97	491.9	30.	24.08	33.96	22.85	502.6	0.154
76.	23.92	34.17	5.42		23.06	484.7	50.	23.98	34.07	22.97	492.4	0.254
99.	22.39	34.74	5.66		23.93	402.2	75.	23.94	34.16	23.05	485.8	0.377
124.	20.34	34.98	5.29		24.68	332.0	100.	22.32	34.76	23.97	399.0	0.489
149.	17.59	34.68	4.88		25.15	287.6	150.	17.45	34.66	25.17	285.7	0.661
174.	14.28	34.31	3.84		25.61	243.1	200.	11.92	34.23	26.03	203.8	0.785
199.	11.97	34.23	2.99		26.02	204.9	250.	10.49	34.42	26.43	166.1	0.878
223.	11.09	34.30	2.03		26.23	184.5	300.	9.79	34.50	26.62	149.1	0.957
247.	10.55	34.41	1.37		26.42	167.6	400.	8.35	34.48	26.83	130.0	1.098
272.	10.12	34.46	1.15		26.53	157.2	500.	7.07	34.46	27.00	114.1	1.221
296.	9.84	34.50	0.90		26.61	150.1	600.	6.24	34.47	27.13	103.1	1.331
394.	8.44	34.48	0.48		26.82	131.1	700.	5.61	34.49	27.22	94.5	1.431
493.	7.14	34.46	0.48		27.00	115.0	800.	5.11	34.51	27.30	87.8	1.523
591.	6.30	34.47	0.50		27.12	104.0	1000.	4.33	34.53	27.40	78.5	1.692
787.	5.17	34.51	0.75		27.29	88.6	1200.	3.74	34.56	27.48	71.0	1.843
983.	4.38	34.53	1.28		27.39	79.2						
1179.	3.83	34.56	1.09		27.48	71.9						
1474.	3.12	34.59	1.60		27.57	63.3						

ΔFROM ST DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA			INTERPOLATED DATA				
CROMWELL DRY BULB 24.2		13, STATION WET BULB 21.8	12, 17-29N LAT, 153-58W LONG, FEB. 14, 1965, 1000 G.C.T.		WIND SPEED 20, DIR. 11	BAR. 16	WEATHER 02	VIS. 5	CLOUD TYPE , COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN-DPTH.
0.	24.31	34.17	5.25		22.94	492.8	0.	24.31	34.17	22.94	492.8	0.000
11.	24.34	34.18	5.20		22.94	493.4	10.	24.34	34.18	22.94	493.6	0.050
48.	24.14	34.65	5.18		23.36	455.2	20.	24.32	34.27	23.02	486.7	0.099
72.	23.95	34.89	5.17		23.59	433.5	30.	24.27	34.39	23.12	477.3	0.148
97.	23.29	34.95	5.16		23.83	411.7	50.	24.13	34.67	23.36	453.4	0.241
121.	22.58	35.11	5.11		24.16	381.5	75.	23.89	34.90	23.62	431.1	0.353
145.	20.60	34.96	4.98		24.59	340.8	100.	23.24	34.98	23.87	408.5	0.459
169.	18.98	34.82	4.49		24.91	311.2	150.	20.26	34.93	24.66	334.5	0.646
195.	16.95	34.69	4.42		25.31	273.7	200.	16.50	34.64	25.37	267.5	0.797
218.	14.83	34.44	4.17		25.60	246.2	250.	12.20	34.28	26.01	206.7	0.917
242.	12.73	34.30	2.95		25.92	215.0	300.	10.41	34.37	26.41	168.9	1.012
267.	11.34	34.28	2.70		26.17	191.4	400.	8.44	34.40	26.76	137.0	1.166
291.	10.64	34.36			26.36	173.8	500.	7.24	34.40	26.93	121.3	1.296
380.	8.75	34.40			26.71	141.5	600.	6.38	34.40	27.05	110.1	1.413
475.	7.51	34.40			26.90	124.5	700.	5.74	34.45	27.18	99.1	1.519
571.	6.59	34.39			27.02	113.6	800.	5.22	34.50	27.27	90.4	1.615
762.	5.42	34.49			27.24	93.0	1000.	4.36	34.52	27.39	79.9	1.787
953.	4.53	34.51	0.99		27.36	82.2	1200.	3.70	34.55	27.48	71.2	1.940
1147.	3.90	34.55	1.13		27.46	73.3						
1443.	3.10	34.58	1.68		27.56	63.5						

CROMWELL DRY BULB 23.0		13, STATION WET BULB 20.9	13, 18-59N LAT, 153-58W LONG, FEB. 14, 1965, 1900 G.C.T.		WIND SPEED 13, DIR. 19	BAR. 19	WEATHER 03	VIS. 7	CLOUD TYPE 6, COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN-DPTH.
0.	23.00	35.08	5.27		24.01	390.6	0.	23.00	35.08	24.01	390.6	0.000
10.	23.06	35.08	5.38		24.00	392.6	10.	23.06	35.08	24.00	392.6	0.039
30.	23.05	35.08			24.00	393.1	20.	23.07	35.08	24.00	393.1	0.079
49.	23.04	35.08	5.28		24.00	393.6	30.	23.05	35.08	24.00	393.1	0.119
73.	22.94	35.11	5.25		24.05	389.6	50.	23.04	35.08	24.00	393.6	0.198
97.	22.43	35.28	5.29		24.33	364.3	75.	22.92	35.13	24.07	387.9	0.296
121.	21.17	35.21	5.06		24.63	336.7	100.	22.29	35.28	24.37	360.8	0.391
146.	20.13	35.21	5.05		24.91	310.8	150.	19.94	35.18	24.94	308.1	0.559
168.	18.94	35.02	4.87		25.07	295.8	200.	16.38	34.65	25.41	263.6	0.703
194.	16.87	34.72	4.63		25.35	269.6	250.	12.56	34.27	25.94	213.9	0.824
218.	14.99	34.48	4.57		25.59	246.7	300.	10.01	34.17	26.33	176.8	0.922
241.	13.55	34.34	4.57		25.79	228.1	400.	8.86	34.48	26.76	137.4	1.081
255.	12.02	34.24	4.57		26.01	206.4	500.	7.78	34.50	26.94	121.4	1.211
277.	10.70	34.14	4.64		26.18	190.7	600.	6.66	34.46	27.06	109.5	1.328
369.	9.23	34.45	1.00		26.67	145.3	700.	5.68	34.42	27.15	101.1	1.434
465.	8.17	34.50	0.54		26.88	126.8	800.	5.06	34.42	27.23	94.0	1.533
554.	7.18	34.49	0.71		27.01	114.3	1000.	4.38	34.50	27.37	81.4	1.711
740.	5.35	34.40	0.78		27.18	98.5	1200.	3.75	34.55	27.48	71.9	1.866
926.	4.64	34.48	1.01		27.33	85.6						
1113.	4.01	34.53	1.17		27.43	75.8						
1393.	3.23	34.57	1.57		27.54	65.5						

TEMPERATURE ERROR TERM AT 300. METERS IS 0.19

CROMWELL DRY BULB 22.2		13, STATION WET BULB 20.0	14, 20-30N LAT, 153-56W LONG, FEB. 15, 1965, 0400 G.C.T.		WIND SPEED 10, DIR. 13	BAR. 15	WEATHER 50	VIS. 7	CLOUD TYPE 8, COVER 8			
DEPTH	TEMP.	SAL.	OXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN-DPTH.
0.	23.13	34.74	5.30		23.72	418.7	0.	23.13	34.74	23.72	418.7	0.000
11.	23.17	34.74	5.28		23.71	420.2	10.	23.17	34.74	23.71	420.1	0.042
30.	23.16	34.76			23.73	419.2	20.	23.17	34.74	23.71	420.5	0.085
51.	23.13	34.91	5.24		23.85	408.4	30.	23.16	34.76	23.73	419.2	0.127
77.	22.44	35.07	5.27		24.17	379.0	50.	23.14	34.90	23.84	409.1	0.210
101.	22.05	35.20	5.24		24.38	360.0	75.	22.50	35.06	24.14	381.4	0.310
126.	20.25	35.01	4.75		24.72	327.6	100.	22.08	35.20	24.37	360.8	0.403
153.	18.46	34.87	4.62		25.08	294.5	150.	18.64	34.88	25.04	297.8	0.569
178.	17.24	34.75	4.74		25.28	275.4	200.	15.22	34.47	25.53	251.8	0.708
203.	14.93	34.43	4.56		25.57	248.6	250.	11.93	34.16	25.97	210.6	0.824
227.	13.32	34.28	4.51		25.79	227.5	300.	9.83	34.07	26.28	181.6	0.923
252.	11.82	34.15	4.81		25.98	209.3	400.	7.37	34.07	26.65	145.8	1.088
278.	10.57	34.08	4.74		26.16	192.9	500.	6.27	34.23	26.93	119.9	1.223
303.	9.74	34.07	4.29		26.29	180.2	600.	5.24	34.29	27.11	103.6	1.335
403.	7.32	34.07	2.60		26.66	145.0	700.	4.68	34.37	27.24	91.7	1.434
504.	6.24	34.24	1.21		26.94	119.0	800.	4.39	34.46	27.33	83.0	1.523
604.	5.20	34.29	0.80		27.11	103.1	1000.	3.87	34.52	27.44	73.9	1.661
805.	4.38	34.46	0.95		27.34	82.6	1200.	3.29	34.55	27.52	66.4	1.823
1006.	3.86	34.52	1.21		27.44	73.8	1500.	2.67	34.60	27.62	57.4	2.012
1208.	3.27	34.55	1.52		27.52	66.1						
1510.	2.65	34.60	1.82		27.62	57.1						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 13, STATION 15, 22- 4N LAT, 153-52W LONG, FEB. 15, 1965, 1400 G.C.T.												
DRY BULB 21.9		WET BULB 19.7		WIND SPEED 08, DIR. 23		BAR. 17	WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.
0.	22.94	34.90	5.84		23.90	401.9	0.	22.94	34.90	23.90	401.9	0.000
10.	22.87	34.92	5.30		23.93	398.9	10.	22.87	34.92	23.93	398.9	0.040
30.Δ	22.68	35.04			24.08	385.9	20.	22.78	34.98	24.00	392.9	0.080
50.	22.48	35.13	5.26		24.20	374.7	30.	22.68	35.04	24.08	385.9	0.119
74.	22.30	35.22	5.22		24.32	364.2	50.	22.48	35.13	24.20	374.7	0.196
98.	21.39	35.21	5.06		24.57	341.6	75.	22.27	35.22	24.33	363.4	0.289
122.	20.42	35.13	4.98		24.77	323.1	100.	21.31	35.20	24.58	339.9	0.378
147.	19.51	35.06	4.83		24.95	306.2	150.	19.40	35.05	24.98	304.3	0.540
170.	18.60	34.96	4.91		25.11	291.9	200.	17.07	34.75	25.32	272.4	0.685
194.	17.41	34.80	4.92		25.28	276.2	250.	13.93	34.36	25.72	234.7	0.813
218.	15.96	34.58	4.76		25.45	260.3	300.	11.22	34.08	26.04	204.7	0.924
242.	14.35	34.39	4.81		25.66	240.6	400.	8.36	34.04	26.49	162.2	1.109
266.	13.11	34.29	4.95		25.84	223.7	500.	6.26	34.06	26.80	132.7	1.258
288.	11.74	34.12	4.81		25.97	210.9	600.	5.31	34.17	27.01	113.2	1.382
383.	8.83	34.05	3.93		26.42	168.6	700.	4.82	34.31	27.17	98.2	1.489
475.	6.63	34.04	2.45		26.73	138.7	800.	4.56	34.42	27.28	88.1	1.583
569.	5.53	34.13	1.29		26.95	118.8	1000.	4.07	34.51	27.41	77.3	1.750
756.	4.68	34.39	0.74		27.24	91.7	1200.	3.54	34.56	27.50	68.7	1.898
944.	4.24	34.49	1.01		27.38	80.0						
1131.	3.66	34.53	1.25		27.47	71.7						
1415.	3.02	34.58	1.62		27.57	62.4						

CROMWELL 13, STATION 16, 23-28N LAT, 153-58W LONG, FEB. 15, 1965, 2200 G.C.T.													
DRY BULB 23.2		WET BULB 20.8		WIND SPEED 10, DIR. 09		BAR. 16		WEATHER 03		VIS. 7		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	23.38	34.82	5.25		23.71	419.8	0.	23.38	34.82	23.71	419.8	0.000	
9.	23.34	34.85	5.26		23.74	416.9	10.	23.34	34.85	23.75	416.6	0.042	
30.Δ	23.22	34.91			23.82	410.1	20.	23.28	34.88	23.78	413.5	0.084	
50.	23.08	35.00	5.24		23.93	400.5	30.	23.22	34.91	23.82	410.1	0.125	
75.	22.66	35.14	5.22		24.16	379.8	50.	23.08	35.00	23.93	400.5	0.207	
100.	22.24	35.19	5.14		24.31	365.8	75.	22.66	35.14	24.16	379.8	0.305	
126.	21.00	35.17	4.92		24.64	335.3	100.	22.24	35.19	24.31	365.8	0.399	
152.	19.46	35.05	4.74		24.96	305.8	150.	19.58	35.06	24.94	307.9	0.569	
176.	18.06	34.84	4.54		25.15	287.9	200.	16.69	34.68	25.36	268.5	0.714	
203.	16.50	34.66	4.79		25.39	265.9	250.	13.73	34.35	25.76	231.4	0.840	
228.	14.58	34.42	4.78		25.64	242.8	300.	11.30	34.19	26.11	197.9	0.949	
253.	13.62	34.34	4.88		25.78	229.8	400.	8.88	34.08	26.44	167.2	1.133	
279.	11.89	34.23	5.05		26.03	205.3	500.	6.61	34.05	26.74	138.0	1.287	
303.	11.25	34.19	4.94		26.12	197.2	600.	5.38	34.13	26.96	117.2	1.416	
405.	8.76	34.08	4.57		26.46	165.7	700.	4.78	34.25	27.13	101.7	1.526	
507.	6.47	34.05	2.29		26.76	136.2	800.	4.46	34.37	27.26	90.2	1.623	
607.	5.33	34.14	1.12		26.98	115.9	1000.	3.98	34.49	27.40	77.7	1.793	
809.	4.44	34.38	0.73		27.27	89.3	1200.	3.40	34.55	27.51	67.8	1.940	
1011.	3.96	34.49	1.08		27.41	77.2	1500.	2.84	34.58	27.59	60.8	2.136	
1213.	3.36	34.55	1.51		27.51	67.2							
1515.	2.82	34.58	1.71		27.59	60.6							

CROMWELL 13, STATION 17, 23-26N LAT, 150-55W LONG, FEB. 16, 1965, 1400 G.C.T.													
DRY BULB 22.0		WET BULB 19.8		WIND SPEED 13, DIR. 15		BAR. 14		WEATHER 02		VIS. 7		CLOUD TYPE 6, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	22.62	34.95			24.02	389.6	0.	22.62	34.95	24.02	389.6	0.000	
10.	22.62	34.96			24.03	389.2	10.	22.62	34.96	24.03	389.2	0.039	
30.Δ	22.66	34.97			24.03	390.4	20.	22.64	34.97	24.03	389.8	0.078	
52.	22.61	34.98			24.05	389.1	30.	22.66	34.97	24.03	390.4	0.118	
77.	22.11	35.18			24.34	362.1	50.	22.62	34.98	24.04	389.7	0.196	
101.	21.56	35.26			24.56	342.6	75.	22.16	35.16	24.32	364.7	0.291	
126.	20.12	35.15			24.86	314.2	100.	21.59	35.26	24.55	343.4	0.381	
153.	19.30	35.09			25.03	299.0	150.	19.38	35.10	25.02	300.2	0.543	
178.	18.40	34.95			25.15	288.1	200.	17.13	34.74	25.30	274.2	0.687	
202.	16.99	34.72			25.32	272.6	250.	13.40	34.34	25.82	225.4	0.813	
228.	14.82	34.46			25.61	244.8	300.	11.63	34.20	26.06	203.5	0.922	
252.	13.29	34.33			25.83	223.9	400.	8.45	34.04	26.48	163.6	1.107	
278.	12.34	34.26			25.97	211.5	500.	6.39	34.04	26.76	135.9	1.258	
303.	11.54	34.19			26.07	202.4	600.	5.24	34.15	27.00	114.0	1.384	
404.	8.33	34.04			26.49	162.1	700.	4.68	34.28	27.16	98.5	1.492	
505.	6.31	34.04			26.78	134.8	800.	4.38	34.39	27.28	87.7	1.586	
607.	5.19	34.16			27.01	112.7	1000.	3.90	34.50	27.42	75.9	1.751	
808.	4.37	34.40			27.29	87.0	1200.	3.38	34.54	27.50	68.2	1.897	
1010.	3.88	34.50			27.42	75.5	1500.	2.81	34.59	27.60	59.7	2.092	
1211.	3.35	34.54			27.51	67.9							
1515.	2.78	34.59			27.60	59.4							

ΔFROM BT DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 18, 22- ON LAT, 150-58W LONG, FEB. 16, 1965, 2300 G.C.T. DRY BULB 24.2 WET BULB 21.0 WIND SPEED 10, DIR. 17 BAR. 14 WEATHER 21 VIS. 7 CLOUD TYPE 6, COVER 6												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.
0-	23.47	34.14			23.17	471.4	0.	23.47	34.14	23.17	471.4	0.000
9-	23.33	34.15			23.22	467.1	10.	23.32	34.15	23.22	466.9	0.047
30.Δ	23.28	34.18			23.25	464.4	20.	23.27	34.16	23.24	465.2	0.094
50.	23.32	34.26			23.30	460.5	30.	23.28	34.18	23.25	464.4	0.141
75.	22.98	34.61			23.66	426.8	50.	23.32	34.26	23.30	460.5	0.234
99.	19.37	34.58			24.63	335.8	75.	22.98	34.61	23.66	426.8	0.346
124.	17.26	34.62			25.18	283.6	100.	19.28	34.58	24.65	333.3	0.442
149.	14.29	34.36			25.65	239.0	150.	14.22	34.35	25.66	238.0	0.586
173.	13.06	34.28			25.84	221.1	200.	11.84	34.30	26.09	197.4	0.695
199.	11.88	34.30			26.09	198.1	250.	9.42	34.15	26.41	168.0	0.787
224.	10.76	34.24			26.25	183.2	300.	8.42	34.18	26.59	151.0	0.868
248.	9.50	34.16			26.40	168.6	400.	6.45	34.20	26.88	123.5	1.006
274.	8.76	34.09			26.46	162.6	500.	6.23	34.37	27.05	109.0	1.124
298.	8.46	34.18			26.58	151.8	600.	5.74	34.42	27.15	100.2	1.229
396.	6.47	34.19			26.87	124.3	700.	5.20	34.45	27.24	92.4	1.327
497.	6.24	34.37			27.05	109.3	800.	4.71	34.47	27.31	85.8	1.417
596.	5.76	34.42			27.15	100.6	1000.	4.14	34.52	27.41	77.0	1.582
795.	4.73	34.47			27.31	86.1	1200.	3.57	34.55	27.50	69.5	1.730
985.	4.19	34.52			27.41	77.6						
1178.	3.56	34.54			27.49	70.1						
1472.	3.02	34.59			27.58	62.0						

CROMWELL 13, STATION 19, 20-29N LAT, 150-59W LONG, FEB. 17, 1965, 0900 G.C.T.													
DRY BULB 22.9		WET BULB 19.7		WIND SPEED 16, DIR. 35		BAR. 16		WEATHER 01		VIS. 6		CLOUD TYPE 4, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	23.50	34.48			23.42	447.7	0.	23.50	34.48	23.42	447.7	0.000	
10.	23.61	34.53			23.42	447.5	10.	23.61	34.53	23.42	447.5	0.045	
30.δ	23.58	34.64			23.51	439.5	20.	23.63	34.58	23.46	444.7	0.090	
50.	23.35	34.79			23.69	423.1	30.	23.58	34.64	23.51	439.5	0.135	
75.	23.25	35.01			23.89	405.4	50.	23.35	34.79	23.69	423.1	0.221	
99.	22.83	35.10			24.08	388.2	75.	23.25	35.01	23.89	405.4	0.326	
123.	21.91	35.29			24.48	350.6	100.	22.80	35.11	24.09	386.9	0.426	
148.	20.16	35.18			24.88	313.8	150.	20.02	35.16	24.90	311.7	0.602	
173.	18.38	34.91			25.13	290.4	200.	16.46	34.67	25.40	264.4	0.747	
197.	16.68	34.70			25.38	266.9	250.	11.57	34.16	26.04	203.6	0.865	
222.	14.62	34.43			25.63	242.7	300.	9.67	34.10	26.32	177.0	0.961	
246.	11.84	34.18			26.00	207.3	400.	6.97	34.13	26.76	135.6	1.119	
271.	10.58	34.13			26.19	189.2	500.	6.34	34.32	27.00	114.2	1.245	
295.	9.84	34.10			26.30	179.5	600.	5.15	34.32	27.14	100.4	1.353	
392.	7.05	34.11			26.73	138.1	700.	4.72	34.40	27.25	90.2	1.449	
491.	6.45	34.32			26.98	115.7	800.	4.55	34.49	27.34	82.7	1.537	
589.	5.22	34.31			27.12	101.7	1000.	3.91	34.53	27.44	73.6	1.695	
784.	4.60	34.48			27.33	83.6	1200.	3.37	34.56	27.52	66.2	1.837	
972.	3.99	34.52			27.43	75.0							
1165.	3.45	34.56			27.51	67.2							
1458.	2.82	34.60			27.60	58.8							

CROMWELL 13, STATION 20, 19- ON LAT, 151- ON LONG, FEB. 17, 1965, 1700 G.C.T. DRY BULB 23.0 WET BULB 19.8 WIND SPEED 14, DIR. 35 BAR. 15 WEATHER 03 VIS. 7 CLOUD TYPE 8, COVER 6												
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	23.71	34.55			23.41	448.5	0.	23.71	34.55	23.41	448.5	0.000
10.	23.73	34.55			23.40	449.4	10.	23.73	34.55	23.40	449.4	0.045
30. ^δ	23.70	34.70			23.52	438.6	20.	23.72	34.61	23.45	445.0	0.090
51.	23.63	34.82			23.63	428.7	30.	23.70	34.70	23.52	438.6	0.135
77.	23.53	34.94			23.75	418.3	50.	23.63	34.81	23.63	429.2	0.222
102.	21.96	35.02			24.26	370.6	75.	23.57	34.93	23.74	419.8	0.329
128.	20.86	35.08			24.61	338.3	100.	22.10	35.01	24.22	374.7	0.429
153.	19.76	35.08			24.90	311.2	150.	19.91	35.09	24.87	314.2	0.603
178.	18.04	34.82			25.14	289.0	200.	16.83	34.70	25.35	270.1	0.750
204.	16.58	34.68			25.39	266.3	250.	12.78	34.24	25.87	220.4	0.874
229.	14.20	34.39			25.69	237.2	300.	10.07	34.09	26.25	184.3	0.976
254.	12.53	34.22			25.90	217.4	400.	7.17	34.07	26.68	142.9	1.141
279.	10.78	34.10			26.13	195.0	500.	5.85	34.21	26.97	116.4	1.272
305.	9.95	34.09			26.27	182.2	600.	5.51	34.38	27.14	100.5	1.381
405.	7.05	34.07			26.70	141.2	700.	5.11	34.45	27.25	91.0	1.478
507.	5.81	34.22			26.98	114.9	800.	4.68	34.48	27.32	84.8	1.567
608.	5.50	34.39			27.15	99.6	1000.	4.10	34.53	27.42	76.1	1.730
810.	4.64	34.48			27.33	84.4	1200.	3.52	34.56	27.51	68.4	1.876
1013.	4.07	34.53			27.43	75.6	1500.	2.82	34.59	27.60	59.9	2.071
1213.	3.48	34.56			27.51	67.9						
1515.	2.79	34.59			27.60	59.5						

FROM BT DATA

Table 3.--Continued

ORIGINAL DATA					DERIVED DATA		INTERPOLATED DATA						
CROMWELL 13, STATION 21, 17-27N LAT, 150-59W LONG, FEB. 18, 1965, 0200 G.C.T.													
DRY BULB 26.5		WET BULB 22.0		WIND SPEED 15, DIR. 01		BAR. 15		WEATHER 01		VIS. 9		CLOUD TYPE 8, COVER 2	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	24.28	34.21			22.98	489.1	0.	24.28	34.21	22.98	489.1	0.000	
11.Δ	24.26	34.25			23.02	486.1	10.	24.26	34.25	23.02	486.3	0.049	
30.	24.16	34.29			23.08	481.1	20.	24.22	34.27	23.05	483.5	0.090	
52.	24.10	34.32			23.12	478.0	30.	24.16	34.29	23.08	481.1	0.147	
78.	24.21	34.64			23.33	459.1	50.	24.10	34.31	23.11	478.5	0.243	
103.	22.99	34.95			23.92	403.6	75.	24.23	34.60	23.29	462.7	0.362	
129.	20.94	34.90			24.45	353.4	100.	23.19	34.92	23.84	411.0	0.472	
155.	20.75	35.15			24.70	331.3	150.	20.75	35.10	24.66	334.6	0.660	
179.	19.85	35.13			24.92	310.7	200.	17.95	34.86	25.20	284.7	0.816	
205.	17.42	34.78			25.26	278.2	250.	13.05	34.29	25.85	222.4	0.944	
230.	14.90	34.45			25.59	247.3	300.	10.44	34.28	26.33	176.7	1.044	
255.	12.63	34.26			25.91	216.4	400.	8.36	34.34	26.72	140.2	1.204	
280.	11.00	34.23			26.20	189.3	500.	7.68	34.46	26.92	123.0	1.337	
305.	10.35	34.29			26.36	174.3	600.	6.80	34.48	27.06	110.2	1.455	
407.	8.25	34.34			26.74	138.8	700.	6.00	34.48	27.17	100.5	1.561	
509.	7.65	34.47			26.93	121.9	800.	5.37	34.49	27.25	92.9	1.659	
610.	6.70	34.48			27.07	109.1	1000.	4.49	34.53	27.38	80.9	1.835	
813.	5.30	34.49			27.26	92.0	1200.	3.81	34.55	27.47	72.7	1.990	
1014.	4.44	34.53			27.39	80.2	1500.	3.10	34.60	27.58	62.6	2.196	
1216.	3.76	34.55			27.47	72.1	2000.	2.21	34.65	27.70	50.6	2.484	
1508.	3.08	34.60			27.58	62.3	2500.	1.85	34.67	27.74	46.7	2.731	
1520.	3.03	34.60			27.59	61.7	3000.	1.64	34.69	27.77	44.3	2.964	
2000.	2.21	34.65			27.70	50.6	4000.	1.42	34.71	27.80	42.4	3.408	
2504.	1.85	34.67			27.74	46.7							
3511.	1.52	34.70			27.79	43.1							
4519.**	1.44 **	34.71 **			27.80	43.8							

CROMWELL 13, STATION 22, 16- ON LAT, 151- 2W LONG, FEB. 18, 1965, 1300 G.C.T.												
DRY BULB 23.0	WET BULB 20.9	WIND SPEED 21, DIR. 03	BAR. 15	WEATHER 02	VIS. 6	CLOUD TYPE 6, COVER 6						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.03	34.07			22.95	492.1	0.	24.03	34.07	22.95	492.1	0.000
10.	24.06	34.07			22.94	493.3	10.	24.06	34.07	22.94	493.3	0.050
50.	23.97	34.08			22.98	491.6	20.	24.06	34.02	22.90	497.7	0.100
75.	23.80	34.68			23.48	444.5	30.	24.05	34.00	22.89	498.8	0.150
99.	21.22	34.88			24.36	361.0	50.	23.97	34.08	22.98	491.6	0.250
123.	19.58	34.99			24.86	312.1	75.	23.80	34.68	23.48	444.5	0.367
148.	17.74	34.82			25.22	280.9	100.	21.14	34.89	24.39	358.5	0.469
172.	14.19	34.38			25.69	236.1	150.	17.44	34.78	25.26	277.0	0.629
197.	12.34	34.35			26.04	202.9	200.	12.19	34.37	26.08	198.0	0.749
221.	11.45	34.52			26.34	174.7	250.	11.17	34.64	26.46	161.8	0.839
246.	11.22	34.63			26.47	163.1	300.	10.42	34.64	26.62	149.7	0.918
271.	10.87	34.65			26.55	156.0	400.	9.30	34.64	26.80	133.4	1.061
295.	10.49	34.64			26.61	150.7	500.	8.31	34.57	26.91	124.7	1.191
392.	9.38	34.64			26.79	134.2	600.	7.27	34.53	27.03	113.3	1.311
492.	8.40	34.57			26.90	125.6	700.	6.41	34.51	27.13	104.0	1.421
589.	7.37	34.53			27.02	114.7	800.	5.74	34.51	27.22	96.3	1.523
786.	5.82	34.51			27.21	97.1	1000.	4.80	34.52	27.34	85.2	1.706
982.	4.88	34.52			27.33	86.3	1200.	4.02	34.55	27.43	75.5	1.869
1177.	4.10	34.55			27.44	76.0						
1471.	3.26	34.58			27.55	65.7						

CROMWELL 13, STATION 23, 14-30N LAT, 151- 1W LONG, FEB. 18, 1965, 2200 G.C.T.												
DRY BULB 24.8	WET BULB 22.0	WIND SPEED 22, DIR. 03	BAR. 17	WEATHER 02	VIS. 9	CLOUD TYPE 8, COVER 4						
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.30	33.99			22.81	505.5	0.	24.30	33.99	22.81	505.5	0.000
10.	24.24	34.00			22.84	503.5	10.	24.24	34.00	22.84	503.5	0.051
30.	24.18	34.00			22.85	502.5	20.	24.21	34.00	22.85	502.9	0.101
50.	24.06	34.00			22.89	499.9	30.	24.18	34.00	22.89	502.5	0.152
75.	21.21	34.67			24.21	375.1	50.	24.06	34.00	22.89	499.9	0.253
99.	19.50	34.78			24.74	324.5	75.	21.21	34.67	24.21	375.1	0.363
124.	18.62	34.81			24.99	301.7	100.	19.47	34.79	24.75	323.3	0.451
149.	16.00	34.51			25.39	264.1	150.	15.86	34.50	25.41	262.0	0.599
173.	12.82	34.29			25.90	215.7	200.	10.95	34.27	26.24	183.3	0.711
198.	11.06	34.28			26.22	184.9	250.	10.31	34.47	26.51	159.0	0.797
223.	10.20	34.26			26.36	172.2	300.	9.28	34.47	26.68	143.0	0.874
246.	10.46	34.48			26.49	160.9	400.	7.95	34.47	26.89	124.4	1.008
272.	9.38	34.39			26.60	150.2	500.	7.09	34.31	27.04	110.8	1.127
297.	9.31	34.47			26.67	143.6	600.	6.32	34.48	27.12	103.6	1.235
395.	8.00	34.47			26.88	125.2	700.	5.68	34.50	27.22	95.3	1.336
493.	7.15	34.51			27.03	111.4	800.	5.15	34.52	27.30	87.6	1.428
591.	6.38	34.48			27.11	104.4	1000.	4.30	34.54	27.41	77.5	1.595
786.	5.21	34.52			27.29	86.4	1200.	3.65	34.56	27.50	69.7	1.745
986.	4.35	34.54			27.41	78.1						
1182.	3.73	34.56			27.49	70.7						
1481.	3.00	34.60			27.59	61.1						

ΔFROM ST DATA
 **EXTRAPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 24, 13- ON LAT, 151- ON LONG, FEB. 19, 1965, 0800 G.C.T. DRY BULB 24.5 WET BULB 21.8 WIND SPEED 24, DIR. 05 BAR. 12 WEATHER 02 VIS. 7 CLOUD TYPE , COVER 2												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.
0.	24.92	34.33			22.88	498.8	0.	24.92	34.33	22.88	498.8	0.000
9.	24.93	34.34			22.89	498.7	10.	24.93	34.34	22.89	498.7	0.050
48.	24.92	34.34			22.89	499.9	20.	24.94	34.35	22.89	499.0	0.100
72.	24.82	34.31			22.90	500.1	30.	24.94	34.35	22.89	499.3	0.151
96.	20.48	34.82			24.52	346.1	50.	24.99	34.33	22.86	503.0	0.252
121.	15.97	34.48			25.37	264.8	75.	24.39	34.38	23.08	482.8	0.376
144.	12.75	34.34			25.95	210.0	100.	19.72	34.79	24.69	329.4	0.478
167.	11.56	34.48			26.29	178.3	150.	12.30	34.36	26.06	200.0	0.612
192.	11.21	34.63			26.47	161.6	200.	11.10	34.64	26.50	158.8	0.702
216.	10.88	34.65			26.54	154.9	250.	10.39	34.65	26.63	147.2	0.779
240.	10.52	34.65			26.61	149.3	300.	9.86	34.65	26.72	139.7	0.852
265.	10.21	34.65			26.66	144.5	400.	8.87	34.61	26.85	128.3	0.987
288.	9.97	34.65			26.70	141.0	500.	7.71	34.60	27.02	113.4	1.109
384.	9.06	34.61			26.82	131.1	600.	6.78	34.52	27.09	107.1	1.220
481.	7.91	34.61			27.00	115.0	700.	6.06	34.50	27.17	99.9	1.325
576.	6.98	34.53			27.07	108.8	800.	5.48	34.51	27.26	92.4	1.422
770.	5.65	34.51			27.23	94.7	1000.	4.55	34.55	27.40	79.6	1.596
961.	4.71	34.55			27.37	81.6	1200.	3.82	34.58	27.49	70.5	1.748
1155.	3.98	34.57			27.47	72.8						
1445.	3.17	34.60			27.57	62.9						

CROMWELL 13, STATION 25, 11-30N LAT, 150-57W LONG, FEB. 19, 1965, 1700 G.C.T. DRY BULB 24.3 WET BULB 22.0 WIND SPEED 35, DIR. 04 BAR. 16 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 3														
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	24.56	34.10			22.82	505.0	0.	24.56	34.10	22.82	505.0	0.000		
11.	24.57	34.10			22.81	505.7	10.	24.57	34.10	22.81	505.7	0.051		
30.Δ	24.55	34.10			22.82	505.9	20.	24.56	34.10	22.82	505.8	0.102		
48.	24.56	34.10			22.82	506.8	30.	24.55	34.10	22.82	505.9	0.153		
72.	20.25	34.80			24.56	340.9	50.	24.26	34.16	22.95	494.0	0.254		
95.	18.09	34.70			25.04	296.1	75.	19.94	34.81	24.65	332.2	0.358		
119.	14.68	34.37			25.57	245.4	100.	17.37	34.62	25.15	285.2	0.435		
143.	12.67	34.49			26.08	197.4	150.	12.34	34.57	26.21	185.8	0.554		
166.	11.81	34.72			26.43	165.2	200.	11.12	34.72	26.56	153.3	0.639		
190.	11.25	34.72			26.53	155.7	250.	10.64	34.72	26.64	146.1	0.715		
213.	10.99	34.73			26.59	150.9	300.	10.23	34.72	26.71	140.7	0.787		
237.	10.76	34.73			26.63	147.4	400.	9.49	34.68	26.81	133.1	0.925		
260.	10.55	34.72			26.66	145.1	500.	8.67	34.64	26.91	125.2	1.056		
283.	10.36	34.72			26.69	142.3	600.	7.65	34.59	27.02	114.8	1.177		
377.	9.65	34.69			26.79	134.6	700.	6.71	34.56	27.13	104.7	1.288		
473.	8.93	34.65			26.88	127.8	800.	5.94	34.55	27.22	96.2	1.389		
567.	7.99	34.60			26.98	118.5	1000.	4.87	34.55	27.36	84.0	1.572		
757.	6.22	34.55			27.19	99.3	1200.	4.02	34.57	27.46	74.0	1.732		
949.	5.14	34.55			27.32	87.1	1500.	3.26	34.60	27.56	64.6	1.943		
1142.	4.21	34.56			27.44	76.3	2000.	2.34	34.64	27.68	52.9	2.241		
1432.	3.42	34.59			27.54	66.7	2500.	1.92	34.66	27.73	48.3	2.499		
1984.	2.36	34.64			27.68	53.2	3000.	1.76	34.68	27.76	46.4	2.741		
2488.	1.93	34.66			27.73	48.4	4000.	1.48	34.70	27.80	43.6	3.202		
2992.	1.76	34.68			27.76	46.5	5000.	1.42	34.71	27.80	44.6	3.657		
3949.	1.44	34.70			27.80	43.1								
5011.	1.42	34.71			27.80	44.7								

CROMWELL 13, STATION 26, 10- 5N LAT, 148- 9W LONG, FEB. 20, 1965, 1500 G.C.T. DRY BULB 25.5 WET BULB 23.2 WIND SPEED 20, DIR. 05 BAR. 10 WEATHER 02 VIS. 7 CLOUD TYPE 8, COVER 8														
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.		
0.	25.57	33.98	5.31		22.42	542.9	0.	25.57	33.98	22.42	542.9	0.000		
10.	25.58	33.98	5.30		22.42	543.6	10.	25.58	33.98	22.42	543.6	0.055		
30.Δ	25.55	33.98			22.43	543.5	20.	25.72	33.95	22.35	550.3	0.110		
52.	22.66	34.52	5.29		23.69	423.7	30.	25.55	33.98	22.43	543.5	0.165		
78.	15.36	34.45	3.69		25.49	252.6	50.	23.05	34.47	23.54	437.7	0.264		
103.	12.89	34.59	0.71		26.12	193.3	75.	16.19	34.47	25.32	268.7	0.353		
128.	11.78	34.70	0.28		26.42	165.2	100.	13.03	34.57	26.07	197.5	0.411		
153.	11.21	34.70	0.27		26.52	155.6	150.	11.26	34.70	26.52	156.2	0.501		
178.	10.92	34.72	0.26		26.59	149.6	200.	10.67	34.73	26.64	145.1	0.576		
204.	10.63	34.73	0.32		26.65	144.5	250.	10.17	34.69	26.70	140.3	0.648		
230.	10.37	34.71	0.32		26.68	142.1	300.	9.73	34.68	26.77	134.9	0.718		
255.	10.12	34.69	0.42		26.71	139.9	400.	8.93	34.65	26.88	126.2	0.850		
280.	9.92	34.69	0.36		26.74	137.1	500.	7.93	34.58	26.97	118.0	0.973		
305.	9.68	34.68	0.38		26.78	134.4	600.	7.01	34.55	27.08	108.1	1.087		
407.	8.88	34.65	0.28		26.88	125.7	700.	6.12	34.53	27.19	98.3	1.191		
510.	7.82	34.57	0.51		26.98	117.1	800.	5.43	34.53	27.27	90.7	1.287		
611.	6.92	34.55	0.36		27.10	107.0	1000.	4.89	34.57	27.37	83.1	1.463		
815.	5.35	34.53	0.64		27.28	89.8	1200.	3.81	34.58	27.49	70.4	1.618		
945.	5.15	34.56	1.20		27.33	86.4	1500.	3.01	34.61	27.59	60.7	1.818		
1222.	3.68	34.58	1.61		27.51	69.0								
1526.	2.92	34.61	1.90		27.60	59.7								

TEMPERATURE ERROR TERM AT 20. METERS 15 0.10
TEMPERATURE ERROR TERM AT 75. METERS 15 0.15

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA					
CROMWELL 13, STATION 27, 11-30N LAT, 148- 7W LONG, FEB. 20, 1965, 2400 G.C.T.													
DRY BULB 25.0		WET BULB 23.0		WIND SPEED 20, DIR. 03		BAR. 12		WEATHER 02		VIS. 6		CLOUD TYPE 6, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	24.74	34.15	5.21		22.80	506.6	0.	24.74	34.15	22.80	506.6	0.000	
11.	24.75	34.14	5.23		22.79	508.0	10.	24.75	34.14	22.79	507.9	0.051	
30.6	24.80	34.19			22.81	506.6	20.	24.77	34.16	22.80	507.6	0.102	
50.	24.83	34.22	5.16		22.83	506.0	30.	24.80	34.19	22.81	506.6	0.153	
75.	18.84	34.70	4.86		24.85	313.3	50.	24.83	34.22	22.83	506.0	0.255	
99.	13.92	34.33	3.32		25.71	232.3	75.	18.84	34.70	24.85	313.3	0.359	
125.	12.53	34.59	0.70		26.19	187.0	100.	13.82	34.34	25.73	230.0	0.427	
150.	11.76	34.70	0.31		26.42	165.3	150.	11.76	34.70	26.42	165.3	0.527	
174.	11.32	34.73	0.29		26.53	155.8	200.	10.93	34.72	26.59	150.3	0.606	
200.	10.93	34.72	0.34		26.59	150.3	250.	10.33	34.71	26.69	141.9	0.680	
224.	10.68	34.72	0.39		26.63	146.5	300.	9.99	34.70	26.74	138.0	0.750	
248.	10.35	34.71	0.46		26.68	142.1	400.	9.32	34.68	26.83	130.5	0.886	
273.	10.17	34.71	0.48		26.72	139.6	500.	8.39	34.61	26.93	122.7	1.014	
297.	10.01	34.70	0.46		26.74	138.2	600.	7.34	34.57	27.05	111.6	1.132	
397.	9.34	34.68	0.26		26.83	130.7	700.	6.45	34.55	27.16	101.9	1.240	
498.	8.41	34.61	0.30		26.93	123.0	800.	5.72	34.54	27.25	93.8	1.339	
596.	7.38	34.57	0.36		27.05	112.0	1000.	4.75	34.55	27.37	82.5	1.517	
795.	5.75	34.54	0.71		27.24	94.1	1200.	3.89	34.57	27.48	72.2	1.674	
993.	4.78	34.55	0.93		27.37	82.9							
1192.	3.87	34.57	1.36		27.48	71.8							
1493.	3.02	34.60	1.75		27.59	61.4							

CROMWELL 13, STATION 28, 12-58N LAT, 148- 0W LONG, FEB. 21, 1965, 0900 G.C.T.														
DRY BULB 24.6		WET BULB 21.9		WIND SPEED 18, DIR. 03		BAR. 13		WEATHER 02		VIS. 6		CLOUD TYPE , COVER 8		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	24.51	34.13	4.94		22.85	501.4	0.	24.51	34.13	22.85	501.4	0.000		
12.	24.54	34.12	4.93		22.84	503.4	10.	24.54	34.12	22.84	503.2	0.051		
51.	24.52	34.13	4.89		22.85	503.7	20.	24.54	34.12	22.84	503.8	0.101		
76.	24.53	34.13	4.86		22.85	504.9	30.	24.54	34.12	22.84	504.0	0.152		
101.	19.20	34.62	4.34		24.70	328.8	50.	24.52	34.13	22.85	503.7	0.254		
127.	13.96	34.39	2.25		25.74	229.5	75.	24.58	34.13	22.83	506.6	0.381		
151.	12.21	34.49	1.07		26.17	189.0	100.	19.46	34.60	24.62	336.5	0.487		
176.	11.60	34.60	0.63		26.37	170.4	150.	12.24	34.48	26.16	190.1	0.620		
203.	11.09	34.63	0.41		26.49	159.8	200.	11.14	34.63	26.48	160.7	0.708		
227.	10.69	34.67	0.23		26.59	150.4	250.	10.44	34.68	26.65	145.9	0.785		
252.	10.42	34.68	0.22		26.65	145.6	300.	9.91	34.66	26.72	139.5	0.857		
278.	10.10	34.66	0.18		26.69	142.2	400.	8.67	34.59	26.87	126.5	0.992		
303.	9.88	34.66	0.22		26.73	139.1	500.	7.62	34.56	27.01	114.6	1.113		
403.	8.63	34.59	0.27		26.88	126.1	600.	6.66	34.55	27.13	103.2	1.223		
504.	7.58	34.56	0.36		27.01	114.2	700.	5.89	34.54	27.23	94.6	1.323		
605.	6.62	34.55	0.46		27.14	102.7	800.	5.27	34.54	27.30	87.8	1.415		
806.	5.24	34.54	0.59		27.30	87.5	1000.	4.41	34.56	27.41	77.6	1.583		
1008.	4.38	34.56	0.91		27.42	77.2	1200.	3.71	34.59	27.51	68.6	1.731		
1208.	3.69	34.59	1.27		27.51	68.2	1500.	2.95	34.61	27.60	60.0	1.926		
1512.	2.93	34.61	1.68		27.60	59.7								

CROMWELL 13, STATION 29, 14-30N LAT, 147-58W LONG, FEB. 21, 1965, 1900 G.C.T.														
DRY BULB 24.7		WET BULB 22.0		WIND SPEED 16, DIR. 02		BAR. 15		WEATHER 01		VIS. 7		CLOUD TYPE 8, COVER 4		
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.		
0.	24.11	34.10	4.98		22.95	492.2	0.	24.11	34.10	22.95	492.2	0.000		
11.	24.08	34.09	5.08		22.95	492.5	10.	24.08	34.09	22.95	492.5	0.050		
30.6	24.07	34.09			22.95	492.9	20.	24.09	34.09	22.95	493.2	0.099		
52.	23.72	34.10	4.94		23.06	483.2	30.	24.07	34.09	22.95	492.9	0.149		
77.	21.35	34.77	4.98		24.24	371.6	50.	23.79	34.09	23.03	486.1	0.248		
102.	19.43	34.88	4.86		24.84	315.6	75.	21.57	34.71	24.14	381.3	0.357		
128.	18.14	34.82	4.63		25.12	289.7	100.	19.56	34.88	24.81	318.5	0.445		
154.	14.53	34.36	4.09		25.60	244.0	150.	15.14	34.43	25.52	251.2	0.588		
177.	11.84	34.19	3.57		26.01	204.9	200.	10.47	34.22	26.28	179.1	0.697		
204.	10.35	34.24	2.82		26.32	175.8	250.	10.05	34.49	26.57	153.1	0.781		
229.	10.29	34.41	1.36		26.46	162.8	300.	8.93	34.47	26.73	137.7	0.854		
254.	9.98	34.50	0.93		26.58	151.5	400.	8.48	34.59	26.90	123.9	0.986		
280.	9.30	34.44	0.97		26.65	145.4	500.	7.45	34.56	27.03	112.6	1.105		
304.	8.87	34.48	0.86		26.75	136.1	600.	6.74	34.52	27.10	106.4	1.216		
405.	8.48	34.59	0.30		26.90	123.8	700.	5.96	34.51	27.19	97.7	1.319		
507.	7.37	34.55	0.35		27.03	111.9	800.	5.24	34.52	27.29	89.0	1.413		
607.	6.70	34.52	0.34		27.10	106.1	1000.	4.52	34.56	27.40	79.1	1.584		
810.	5.17	34.52	0.59		27.30	88.1	1200.	3.80	34.64	27.54	66.1	1.731		
1012.	4.49	34.56	0.76		27.41	78.6	1500.	3.04	34.62	27.60	60.0	1.923		
1213.	3.75	34.64	1.19		27.55	65.3								
1516.	3.00	34.62	1.76		27.60	59.9								

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL 13, STATION 30, 15-57N LAT, 147-58W LONG, FEB. 22, 1965, 0400 G.C.T.													
DRY BULB 21.7		WET BULB 19.2		WIND SPEED 35, DIR. 33		BAR. 15		WEATHER 99		VIS. 5		CLOUD TYPE 9, COVER 8	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.	
0.	23.67	34.10	5.06		23.08	479.9	0.	23.67	34.10	23.08	479.9	0.000	
9.	23.72	34.16	5.17		23.11	477.3	10.	23.72	34.16	23.11	477.3	0.048	
50.	23.69	34.18	5.02		23.13	476.5	20.	23.72	34.17	23.11	477.2	0.096	
74.	23.78	34.37	5.03		23.25	466.3	30.	23.72	34.17	23.12	477.1	0.144	
99.	21.29	34.88	5.34		24.34	362.9	50.	23.69	34.18	23.13	476.5	0.240	
123.	20.01	34.96	4.79		24.75	325.1	75.	23.69	34.39	23.29	462.4	0.359	
148.	18.67	34.86	4.59		25.02	300.1	100.	21.23	34.89	24.37	360.6	0.462	
173.	15.95	34.49	4.11		25.39	265.2	150.	18.49	34.83	25.04	297.7	0.628	
198.	12.83	34.26	2.63		25.87	218.7	200.	12.70	34.26	25.90	215.9	0.758	
223.	11.80	34.41	1.61		26.19	189.1	250.	11.30	34.56	26.40	170.0	0.855	
247.	11.40	34.56	0.70		26.38	171.5	300.	10.44	34.60	26.59	152.7	0.936	
272.	10.63	34.52	0.82		26.49	161.4	400.	8.99	34.56	26.80	134.0	1.081	
297.	10.48	34.60	0.59		26.58	153.5	500.	8.08	34.55	26.93	122.6	1.210	
396.	9.03	34.56	0.40		26.79	134.5	600.	6.86	34.48	27.05	111.3	1.328	
495.	8.14	34.55	0.47		26.92	123.2	700.	6.05	34.47	27.15	102.0	1.436	
595.	6.91	34.48	0.60		27.04	111.8	800.	5.48	34.49	27.24	94.3	1.535	
793.	5.52	34.49	0.49		27.23	94.7	1000.	4.61	34.51	27.35	83.6	1.715	
993.	4.64	34.51	0.82		27.35	84.0	1200.	3.82	34.54	27.46	73.1	1.874	
1192.	3.79	34.55	1.44		27.47	72.3							
1494.	3.08	34.59	1.50		27.57	62.9							

CROMWELL 13, STATION 31, 17-30N LAT, 148- 2W LONG, FEB. 22, 1965, 1400 G.C.T. DRY BULB 20.3 WET BULB 19.3 WIND SPEED 14, DIR. 33 BAR. 14 WEATHER 51 VIS. 6 CLOUD TYPE , COVER 9												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	23.45	34.26	5.33		23.26	462.2	0.	23.45	34.26	23.26	462.2	0.000
10.	23.49	34.26	4.91		23.25	463.7	10.	23.49	34.26	23.25	463.7	0.047
30.Δ	23.52	34.26			23.24	465.3	20.	23.51	34.26	23.25	464.7	0.093
50.	23.48	34.26	5.53		23.26	464.9	30.	23.52	34.26	23.24	465.3	0.140
75.	23.28	34.73	5.27		23.67	426.4	50.	23.48	34.26	23.26	464.9	0.234
99.	21.36	34.88	5.27		24.32	364.7	75.	23.28	34.73	23.67	426.4	0.346
123.	20.43	34.99	5.04		24.66	333.5	100.	21.30	34.89	24.34	362.9	0.446
149.	20.18	35.02	4.91		24.75	325.9	150.	20.18	35.02	24.75	325.8	0.619
172.	19.91	35.01	4.79		24.81	320.6	200.	18.46	34.87	25.07	296.4	0.776
197.	18.71	34.90	4.56		25.04	299.8	250.	13.00	34.27	25.85	222.5	0.907
221.	16.35	34.60	4.26		25.38	267.5	300.	10.12	34.12	26.27	182.7	1.009
245.	13.36	34.30	4.37		25.80	227.3	400.	8.55	34.31	26.67	145.4	1.174
270.	11.86	34.20	4.40		26.01	206.8	500.	7.16	34.37	26.92	122.1	1.309
294.	10.33	34.12	4.32		26.23	186.2	600.	6.13	34.36	27.06	109.7	1.426
391.	8.69	34.30	1.81		26.64	148.2	700.	5.53	34.41	27.17	99.6	1.532
492.	7.26	34.37	0.86		26.91	123.3	800.	5.11	34.46	27.26	91.3	1.629
589.	6.21	34.36	0.70		27.04	110.9	1000.	4.29	34.51	27.39	79.4	1.802
786.	5.18	34.46	0.82		27.25	92.4	1200.	3.66	34.55	27.48	71.0	1.954
984.	4.34	34.51	0.99		27.38	80.2						
1182.	3.74	34.54	1.14		27.47	72.3						
1482.	3.00	34.58	1.58		27.57	62.6						

CROMWELL 13, STATION 32, 19- ON LAT, 148- 2W LONG, FEB. 22, 1965, 2300 G.C.T. DRY BULB 21.8 WET BULB 18.2 WIND SPEED 08, DIR. 36 BAR. 15 WEATHER 02 VIS. 8 CLOUD TYPE 8, COVER 3												
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.90	34.45	5.09		23.57	433.3	0.	22.90	34.45	23.57	433.3	0.000
10.	22.82	34.45	5.14		23.59	431.5	10.	22.82	34.45	23.59	431.5	0.044
30.Δ	22.75	34.45			23.61	430.4	20.	22.77	34.45	23.60	430.6	0.087
52.	22.76	34.45	5.08		23.61	431.4	30.	22.75	34.45	23.61	430.4	0.130
75.Δ	23.08	34.76			23.75	418.7	50.	22.75	34.44	23.60	431.6	0.217
77.	23.09	34.79	5.05		23.77	416.9	75.	23.08	34.76	23.75	418.7	0.324
103.	22.05	34.98	5.08		24.21	375.9	100.	22.22	34.97	24.15	381.1	0.425
128.	21.11	35.04	4.98		24.51	347.7	150.	20.44	35.10	24.74	327.1	0.603
153.	20.34	35.10	4.70		24.77	324.4	200.	17.61	34.76	25.20	283.7	0.757
178.	19.16	35.04	4.70		25.03	300.0	250.	12.70	34.23	25.88	219.6	0.884
204.	17.26	34.70	4.28		25.24	280.3	300.	10.19	34.16	26.28	181.2	0.985
229.	14.52	34.36	3.74		25.60	245.9	400.	8.60	34.31	26.66	146.3	1.151
254.	12.42	34.22	3.55		25.92	215.3	500.	7.03	34.30	26.88	125.7	1.288
279.	11.47	34.22	2.75		26.10	198.4	600.	6.26	34.38	27.05	110.4	1.407
305.	9.88	34.14	3.16		26.32	177.4	700.	5.70	34.44	27.17	99.8	1.513
407.	8.63	34.33	1.16		26.67	145.3	800.	5.20	34.47	27.25	92.2	1.610
509.	6.89	34.29	0.93		26.90	124.3	1000.	4.42	34.51	27.37	81.5	1.786
611.	6.21	34.39	0.62		27.07	109.0	1200.	3.71	34.54	27.47	72.3	1.942
813.	5.14	34.47	0.58		27.26	91.4	1500.	3.03	34.58	27.57	63.2	2.148
1017.	4.36	34.51	0.96		27.38	80.7						
1218.	3.65	34.54	1.10		27.48	71.5						
1522.	2.99	34.58	1.44		27.57	62.7						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA						
CROMWELL DRY BULB 20.8		13, STATION WET BULB 16.8	33, 20-32N LAT, 148- 16.8	148- 1W LONG, FEB. 23, 1965, WIND SPEED 11, DIR. 31	8AR. 15	0900 G.C.T. WEATHER 02	VIS. 8	CLOUD TYPE 8, COVER 2					
DEPTH	TEMP.	SAL.	CXY.	PD4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
0.	22.89	34.32	4.91		23.47	442.4	0.	22.89	34.32	23.47	442.4	0.000	
10.	22.95	34.32	5.10		23.45	444.4	10.	22.95	34.32	23.45	444.4	0.045	
30.Δ	22.68	34.38			23.58	433.5	20.	22.84	34.32	23.48	441.9	0.089	
48.	22.50	34.77	5.10		23.92	401.1	30.	22.68	34.38	23.58	433.5	0.133	
72.	22.51	35.19	5.02		24.24	372.0	50.	22.50	34.81	23.96	398.1	0.217	
95.	22.37	35.30	4.97		24.36	361.1	75.	22.55	35.22	24.25	370.8	0.314	
119.	20.24	35.01	4.83		24.73	327.1	100.	21.97	35.25	24.43	354.3	0.405	
143.	19.05	34.91	4.62		24.96	305.5	150.	18.81	34.89	25.00	301.8	0.571	
166.	18.19	34.81	4.49		25.10	292.8	200.	15.92	34.51	25.41	263.8	0.713	
189.	16.57	34.59	4.29		25.32	272.2	250.	12.08	34.12	25.91	216.0	0.834	
213.	15.08	34.42	4.10		25.53	252.8	300.	10.36	34.22	26.30	179.4	0.934	
236.	12.90	34.19	4.39		25.80	226.2	400.	8.16	34.25	26.68	143.8	1.097	
260.	11.65	34.11	4.01		25.98	209.3	500.	6.84	34.28	26.90	123.9	1.232	
283.	10.84	34.19	3.32		26.19	189.6	600.	6.48	34.42	27.05	110.6	1.350	
377.	8.67	34.26	2.02		26.61	150.6	700.	5.62	34.43	27.17	99.1	1.456	
471.	6.96	34.24	1.31		26.85	128.4	800.	5.05	34.44	27.24	92.7	1.553	
566.	6.77	34.40	0.62		27.00	115.3	1000.	4.64	34.50	27.34	84.7	1.733	
755.	5.13	34.42	0.82		27.22	94.4	1200.	3.91	34.54	27.45	74.5	1.894	
944.	4.92	34.49	0.96		27.30	88.6							
1134.	3.89	34.52	1.39		27.44	75.2							
1420.	3.14	34.57	1.39		27.55	64.6							

TEMPERATURE ERROR TERM AT 700. METERS IS 0.11
TEMPERATURE ERROR TERM AT 1200. METERS IS 0.18

CROMWELL 13, STATION 34, 22- ON LAT, 147-55W LONG, FEB. 23, 1965, 1800 G.C.T.													
DRY BULB 19.8		WET BULB 17.0		WIND SPEED 14, DIR. 36		8AR. 11		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 6	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.OPTH.	
0.	22.18	34.78	5.11		24.02	390.0	0.	22.18	34.78	24.02	390.0	0.000	
11.	22.18	34.79	5.20		24.03	389.7	10.	22.18	34.79	24.03	389.8	0.039	
30. Δ	22.32	34.96			24.12	381.9	20.	22.23	34.86	24.06	386.5	0.078	
50.	22.50	35.14	5.05		24.20	374.5	30.	22.32	34.96	24.12	381.9	0.117	
76.	22.12	35.26	5.05		24.40	356.6	50.	22.50	35.14	24.20	374.5	0.193	
100.	21.85	35.34	5.03		24.54	344.5	75.	22.14	35.26	24.39	357.3	0.285	
126.	20.52	35.18	4.92		24.78	322.2	100.	21.85	35.34	24.54	344.5	0.374	
151.	19.58	35.11	4.76		24.97	304.4	150.	19.62	35.11	24.97	305.1	0.538	
175.	18.37	34.92	4.54		25.14	289.5	200.	17.34	34.80	25.30	274.8	0.684	
200.	17.34	34.80	4.73		25.30	274.8	250.	14.11	34.37	25.70	237.4	0.813	
226.	15.92	34.59	4.67		25.47	258.9	300.	11.36	34.17	26.08	200.6	0.923	
250.	14.11	34.37	4.93		25.70	237.4	400.	8.47	34.06	26.49	162.6	1.106	
275.	12.30	34.23	4.93		25.95	212.8	500.	6.14	34.06	26.81	131.0	1.255	
300.	11.36	34.17	4.96		26.08	200.6	600.	5.18	34.20	27.04	109.6	1.376	
400.	8.47	34.06	4.13		26.49	162.6	700.	4.75	34.33	27.19	95.8	1.480	
501.	6.12	34.06	1.97		26.82	130.7	800.	4.55	34.43	27.30	86.9	1.572	
601.	5.12	34.20	0.76		27.04	109.4	1000.	4.00	34.50	27.41	76.9	1.738	
800.	4.55	34.43	0.88		27.30	86.9	1200.	3.47	34.54	27.50	68.9	1.886	
1000.	4.00	34.50	1.04		27.41	76.9							
1199.	3.46	34.54	1.17		27.50	69.1							
1498.	2.81	34.58	1.56		27.59	60.4							

CROMWELL 13, STATION 35, 23-28N LAT, 148- 2W LONG, FEB. 24, 1965, 0200 G.C.T.													
DRY BULB 21.5		WET BULB 18.5		WIND SPEED 08, DIR. 36		BAR. 15		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4	
DEPTH	TEMP.	SAL.	OXY.	PO4-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	OYN.DPTH.	
1.	21.55	34.44	5.23		23.94	397.9	0.	21.55	34.44	23.94	397.9	0.000	
10.	21.43	34.47	5.21		23.99	392.9	10.	21.43	34.47	23.99	392.9	0.040	
50.	21.53	35.12	5.15		24.46	350.0	20.	21.42	34.62	24.11	382.4	0.079	
76.	21.46	35.26	5.16		24.58	339.0	30.	21.44	34.77	24.22	371.8	0.117	
101.	21.07	35.27	5.16		24.70	329.0	50.	21.53	35.12	24.46	350.0	0.190	
126.	20.14	35.19	4.95		24.89	311.8	75.	21.47	35.26	24.58	339.3	0.276	
151.	19.01	35.06	4.92		25.08	294.0	100.	21.09	35.27	24.69	329.5	0.361	
175.	18.10	34.91	4.97		25.20	283.8	150.	19.06	35.07	25.08	294.6	0.518	
201.	16.52	34.68	4.86		25.40	264.9	200.	16.59	34.69	25.39	265.7	0.659	
225.	14.79	34.46	4.96		25.62	244.1	250.	13.45	34.34	25.81	226.3	0.783	
250.	13.45	34.34	4.94		25.81	226.3	300.	11.23	34.19	26.12	196.8	0.890	
276.	11.87	34.21	4.93		26.02	206.4	400.	8.56	34.05	26.46	164.8	1.072	
300.	11.23	34.19	5.17		26.12	196.8	500.	6.32	34.04	26.78	134.0	1.223	
400.	8.56	34.05	4.99		26.46	164.8	600.	5.33	34.12	26.96	117.4	1.351	
501.	6.30	34.04	2.32		26.78	134.6	700.	4.76	34.27	27.14	100.5	1.461	
601.	5.32	34.12	1.13		26.96	117.2	800.	4.42	34.41	27.29	86.9	1.556	
801.	4.42	34.41	0.79		27.29	86.8	1000.	4.00	34.50	27.41	76.8	1.721	
992.	4.02	34.50	1.13		27.41	77.1	1200.	3.55	34.54	27.49	69.7	1.870	
1187.	3.56	34.53	1.21		27.48	70.9							
1482.	2.90	34.57	1.61		27.57	62.1							

SALINITY ERROR TERM AT 30. METERS IS 0.06

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA								
CROMWELL DRY BULB 21.8		13, STATION WET BULB 18.8		36, 25- 2N LAT, 148- 1W LONG, FEB. 24, 1965, 1300 G.C.T.		WIND SPEED 12, DIR. 02		BAR. 11		WEATHER 02		VIS. 7		CLOUD TYPE , COVER 4	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.			
0.	21.76	34.87	5.30		24.21	372.3	0.	21.76	34.87	24.21	372.3	0.000			
10.	21.75	34.87	4.76		24.21	372.4	10.	21.75	34.87	24.21	372.4	0.038			
30.Δ	21.44	35.08			24.45	349.8	20.	21.61	34.96	24.32	362.4	0.073			
51.	21.35	35.24	5.10		24.60	336.7	30.	21.44	35.08	24.45	349.8	0.110			
76.	21.27	35.29	5.02		24.66	331.9	50.	21.35	35.23	24.60	337.1	0.180			
101.	20.24	35.21	4.89		24.88	312.0	75.	21.28	35.29	24.66	332.1	0.264			
126.	19.46	35.13	4.87		25.02	299.1	100.	20.29	35.21	24.67	312.9	0.345			
153.	18.59	34.99	4.77		25.14	288.9	150.	18.69	35.01	25.12	290.0	0.497			
177.	17.60	34.83	4.77		25.26	277.9	200.	16.23	34.64	25.44	260.9	0.636			
204.	15.96	34.61	4.97		25.48	257.6	250.	13.09	34.28	25.84	223.3	0.758			
229.	14.30	34.41	4.92		25.69	237.7	300.	11.25	34.15	26.08	200.4	0.865			
253.	12.93	34.27	4.69		25.86	221.3	400.	9.03	34.07	26.41	170.6	1.052			
277.	11.86	34.20	5.05		26.01	206.9	500.	6.74	34.02	26.70	142.0	1.210			
303.	11.19	34.14	5.03		26.09	199.8	600.	5.37	34.09	26.93	119.9	1.342			
405.	8.92	34.07	5.22		26.42	169.0	700.	4.62	34.22	27.12	102.6	1.454			
507.	6.60	34.02	2.69		26.72	140.2	800.	4.20	34.34	27.26	89.4	1.551			
607.	5.30	34.10	1.25		26.95	118.5	1000.	3.77	34.48	27.41	76.0	1.719			
809.	4.18	34.35	0.60		27.27	88.4	1200.	3.36	34.53	27.50	68.8	1.865			
1011.	3.76	34.48	1.07		27.42	75.6	1500.	2.78	34.58	27.59	60.0	2.061			
1212.	3.34	34.53	1.27		27.50	68.5									
1515.	2.75	34.58	1.62		27.59	59.8									

CROMWELL		13, STATION		37, 26-27N LAT, 148- 2W LONG, FEB. 24, 1965, 2100 G.C.T.									
DRY BULB 21.0		WET BULB 18.2		WIND SPEED 07, DIR. 23		BAR. 10		WEATHER 02		VIS. 8		CLOUD TYPE 6, COVER 7	
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.	
0.	21.39	35.25	5.31		24.60	335.1	0.	21.39	35.25	24.60	335.1	0.000	
10.	21.19	35.25	5.35		24.65	330.2	10.	21.19	35.25	24.65	330.2	0.034	
30.Δ	21.13	35.25			24.67	329.4	20.	21.13	35.25	24.67	328.9	0.067	
51.	21.17	35.25	5.26		24.66	331.2	30.	21.13	35.25	24.67	329.4	0.100	
77.	21.16	35.24	5.30		24.65	332.6	50.	21.17	35.25	24.66	331.1	0.166	
102.	21.17	35.25	5.33		24.66	333.1	75.	21.16	35.24	24.65	332.6	0.250	
127.	20.38	35.22	4.99		24.85	315.8	100.	21.18	35.25	24.65	333.4	0.334	
152.	18.76	35.01	5.00		25.11	291.6	150.	18.89	35.03	25.09	293.3	0.492	
178.	17.78	34.86	4.86		25.24	279.9	200.	16.47	34.68	25.41	264.0	0.632	
203.	16.28	34.65	4.86		25.43	261.8	250.	13.47	34.34	25.81	226.7	0.756	
229.	14.97	34.49	4.89		25.60	245.8	300.	11.59	34.24	26.10	199.2	0.863	
253.	13.26	34.32	4.94		25.83	224.1	400.	9.53	34.11	26.35	176.0	1.053	
280.	12.26	34.27	5.21		25.99	209.3	500.	7.13	34.02	26.65	147.3	1.216	
304.	11.46	34.24	5.16		26.12	197.4	600.	5.57	34.05	26.88	125.3	1.353	
405.	9.45	34.10	4.99		26.36	175.3	700.	4.78	34.16	27.06	108.5	1.472	
507.	6.97	34.02	3.14		26.67	145.3	800.	4.37	34.29	27.20	95.3	1.575	
608.	5.48	34.06	1.63		26.90	123.8	1000.	3.83	34.44	27.38	79.0	1.751	
810.	4.35	34.30	0.47		27.21	94.2	1200.	3.37	34.51	27.48	70.4	1.902	
1013.	3.80*	34.45	1.01		27.39	78.3	1500	2.80	34.57	27.58	61.0	2.102	
1214.	3.34	34.51	1.25		27.48	70.0							
1518.	2.77	34.57	1.59		27.58	60.8							

CROMWELL		13, STATION		38, 25- 2N LAT, 151- 6W LONG, FEB. 25, 1965, 1500 G.C.T.													
ORY BULB 18.4		WET BULB 16.2		WIND SPEED 26, DIR. 30		BAR. 07		WEATHER 02		VIS. 7		CLOUD TYPE		COVER 3			
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.DPTH.					
0.	21.38	35.18			24.55	339.9	0.	21.38	35.18	24.55	339.9	0.000					
9.	21.42	35.18			24.54	341.3	10.	21.42	35.18	24.54	341.2	0.034					
30.Δ	21.41	35.23			24.58	338.2	20.	21.42	35.20	24.55	340.1	0.069					
49.	21.40	35.26			24.60	336.4	30.	21.41	35.23	24.58	338.2	0.103					
73.	21.36	35.27			24.62	335.6	50.	21.40	35.26	24.60	336.4	0.171					
97.	21.10	35.24			24.67	331.8	75.	21.35	35.27	24.62	335.6	0.255					
120.	20.38	35.21			24.84	316.3	100.	21.04	35.24	24.69	330.3	0.339					
145.	18.96	35.04			25.08	294.0	150.	18.67	35.00	25.12	290.2	0.496					
169.	17.59	34.83			25.26	277.4	200.	16.00	34.59	25.45	259.6	0.634					
194.	16.35	34.64			25.41	263.8	250.	13.34	34.28	25.79	228.3	0.757					
217.	15.02	34.47			25.58	248.0	300.	11.05	34.12	26.10	198.6	0.865					
241.	13.94	34.34			25.71	235.9	400.	8.28	34.04	26.50	160.9	1.046					
265.	12.36	34.20			25.92	215.9	500.	6.43	34.05	26.77	135.6	1.196					
289.	11.43	34.14			26.05	203.8	600.	5.31	34.13	26.97	116.1	1.323					
385.	8.63	34.05			26.45	165.6	700.	4.63	34.25	27.14	100.3	1.432					
481.	6.71	34.04			26.72	139.8	800.	4.27	34.36	27.27	88.9	1.528					
578.	5.51	34.11			26.93	120.1	1000.	3.92	34.48	27.41	77.2	1.696					
771.	4.34	34.33			27.24	91.4	1200.	3.46	34.55	27.50	68.6	1.844					
963.	4.02	34.47			27.38	79.0											
1160.	3.49	34.52			27.48	70.6											
1451.	2.87	34.57			27.58	61.6											

ΔFROM BT DATA
*INTERPOLATED DATA

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA				INTERPOLATED DATA				
CROMWELL 13, STATION 39, 24-58N LAT, 154- 2W LONG, FEB. 26, 1965, 0800 G.C.T.												
DRY BULB 16.8		WET BULB 14.3		WIND SPEED 22, DIR. 02		BAR. 18		WEATHER 02		VIS.		CLOUD TYPE 8, COVER 2
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	21.48	35.20	5.53		24.53	341.1	0.	21.48	35.20	24.53	341.1	0.000
11.	21.51	35.19	5.22		24.52	343.0	10.	21.51	35.19	24.52	342.8	0.034
50.	21.50	35.18	5.10		24.51	344.9	20.	21.52	35.18	24.51	343.8	0.069
74.	21.50	35.19	5.11		24.52	345.1	30.	21.52	35.18	24.51	344.5	0.104
98.	21.48	35.20	5.09		24.53	344.7	50.	21.50	35.18	24.51	344.9	0.173
122.	21.11	35.25	4.97		24.67	332.3	75.	21.50	35.19	24.52	345.2	0.260
147.	20.06	35.17	4.85		24.89	312.0	100.	21.47	35.21	24.54	344.0	0.347
172.	19.56	35.12	4.79		24.99	303.9	150.	19.99	35.16	24.91	310.7	0.512
197.	18.67	35.03	4.74		25.10	294.3	200.	18.80	35.02	25.11	293.3	0.664
221.	18.16	34.94	4.74		25.21	284.5	250.	16.42	34.66	25.41	265.7	0.805
245.	16.79	34.71	4.71		25.36	270.2	300.	13.18	34.33	25.86	222.9	0.928
269.	14.98	34.48	4.72		25.59	247.9	400.	9.57	34.09	26.34	177.6	1.130
293.	13.53	34.36	4.82		25.81	227.6	500.	7.25	34.02	26.64	149.1	1.295
390.	9.66	34.11	4.67		26.30	181.0	600.	5.80	34.09	26.89	125.2	1.434
489.	7.46	34.02	3.44		26.60	152.0	700.	4.99	34.21	27.07	107.4	1.551
587.	5.93	34.08	1.70		26.86	127.8	800.	4.58	34.33	27.21	94.9	1.653
781.	4.64	34.31	0.63		27.19	96.6	1000.	4.07	34.45	27.36	81.3	1.832
977.	4.14	34.44	1.00		27.35	82.8	1200.	3.54	34.53	27.48	70.6	1.986
1171.	3.57	34.52	1.24		27.47	71.6						
1466.	2.91	34.57	1.54		27.57	62.1						

CROMWELL 13, STATION 40, 24-58N LAT, 156-58W LONG, FEB. 26, 1965, 2300 G.C.T.												
DRY BULB 20.9		WET BULB 15.9		WIND SPEED 16, DIR. 05		BAR. 22		WEATHER 03		VIS. 8		CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	21.73	35.20			24.46	347.7	0.	21.73	35.20	24.46	347.7	0.000
10.	21.74	35.21			24.47	347.6	10.	21.74	35.21	24.47	347.6	0.035
50.	21.68	35.20			24.48	348.2	20.	21.73	35.21	24.47	347.5	0.070
73.	21.71	35.20			24.47	349.9	30.	21.71	35.21	24.48	347.6	0.105
98.	21.69	35.20			24.48	350.3	50.	21.68	35.20	24.48	348.2	0.175
122.	21.37	35.23			24.59	340.5	75.	21.72	35.20	24.47	350.1	0.263
147.	21.10	35.21			24.65	335.6	100.	21.67	35.20	24.48	349.5	0.351
171.	19.57	35.03			24.92	310.7	150.	20.95	35.19	24.67	333.2	0.523
196.	17.73	34.81			25.21	283.0	200.	17.51	34.78	25.25	279.8	0.678
220.	16.41	34.66			25.41	264.5	250.	14.26	34.44	25.72	235.5	0.808
245.	14.61	34.47			25.67	240.2	300.	12.10	34.24	26.00	209.2	0.920
269.	13.10	34.33			25.87	220.7	400.	9.63	34.11	26.34	177.5	1.115
294.	12.27	34.25			25.97	211.3	500.	7.41	34.04	26.62	150.3	1.280
390.	9.87	34.12			26.31	180.4	600.	5.72	34.05	26.86	127.4	1.421
489.	7.64	34.04			26.59	153.2	700.	4.92	34.15	27.03	110.9	1.541
587.	5.86	34.04			26.83	129.9	800.	4.55	34.28	27.18	98.0	1.647
782.	4.62	34.26			27.15	100.1	1000.	3.95	34.45	27.38	79.8	1.826
977.	4.02	34.44			27.36	81.4	1200.	3.36	34.52	27.49	69.5	1.978
1171.	3.43	34.51			27.48	70.7	1500.	2.72	34.58	27.59	59.6	2.174
1464.	2.78	34.57			27.58	60.6	2000.	2.04	34.63	27.69	50.1	2.453
2031.	2.01	34.63			27.70	49.7	2500.	1.68	34.66	27.74	45.2	2.696
2534.	1.66	34.66			27.75	45.0	3000.	1.53	34.67	27.76	44.1	2.923
3037.	1.53	34.67			27.76	44.1						
3841.	1.46	34.69			27.79	43.8						

CROMWELL 13, STATION 41, 23-29N LAT, 156-58W LONG, FEB. 27, 1965, 0900 G.C.T.												
DRY BULB 21.3		WET BULB 16.0		WIND SPEED 17, DIR. 04		BAR. 17		WEATHER 02		VIS. 5		CLOUD TYPE , COVER 4
DEPTH	TEMP.	SAL.	OXY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	21.67	35.19			24.47	346.8	0.	21.67	35.19	24.47	346.8	0.000
10.	21.65	35.19			24.48	346.6	10.	21.65	35.19	24.48	346.6	0.035
49.	21.65	35.18			24.47	348.8	20.	21.64	35.19	24.48	347.0	0.070
73.	21.68	35.19			24.47	349.8	30.	21.64	35.18	24.48	347.5	0.105
97.	21.65	35.20			24.49	349.2	50.	21.65	35.18	24.47	348.9	0.175
120.	21.45	35.21			24.55	344.0	75.	21.68	35.19	24.47	349.9	0.263
145.	19.95	35.08			24.85	315.6	100.	21.66	35.20	24.49	349.2	0.351
170.	18.81	34.96			25.06	297.0	150.	19.73	35.06	24.90	311.6	0.518
194.	17.29	34.78			25.29	274.9	200.	16.80	34.72	25.77	267.8	0.664
218.	15.40	34.57			25.57	248.8	250.	13.91	34.41	25.77	230.2	0.789
242.	14.34	34.45			25.71	236.0	300.	11.78	34.24	26.06	203.4	0.899
266.	13.06	34.34			25.89	219.1	400.	8.83	34.08	26.45	166.7	1.085
290.	12.12	34.26			26.01	207.6	500.	6.54	34.05	26.75	137.3	1.239
387.	9.23	34.10			26.40	171.4	600.	5.83	34.20	26.96	118.1	1.368
485.	6.71	34.03			26.72	140.6	700.	5.09	34.32	27.15	100.9	1.478
581.	5.98	34.17			26.92	121.8	800.	4.49	34.41	27.28	87.9	1.574
776.	4.60	34.39			27.26	90.2	1000.	3.84	34.50	27.43	74.9	1.738
971.	3.92	34.49			27.41	76.4	1200.	3.35	34.56	27.52	66.4	1.882
1167.	3.46	34.55			27.50	68.1						
1462.	2.88	34.58			27.58	61.0						

Table 3.--Continued

ORIGINAL DATA				DERIVED DATA			INTERPOLATED DATA					
CROMWELL 13, STATION 42, 21-59N LAT, 157- 1W LONG, FEB. 27, 1965, 1800 G.C.T.												
DRY BULB 19.9		WET BULB 16.1		WIND SPEED 16, DIR. 08		BAR. 20		WEATHER 02		VIS. 9		CLOUD TYPE 8, COVER 4
DEPTH	TEMP.	SAL.	CKY.	P04-P	SIGMA-T	DELTA	DEPTH	TEMP.	SAL.	SIGMA-T	DELTA	DYN.OPTH.
0.	22.52	35.00			24.09	383.3	0.	22.52	35.00	24.09	383.3	0.000
9.	22.55	35.00			24.08	384.4	10.	22.55	35.00	24.08	384.5	0.039
30. ^Δ	22.56	35.00			24.08	385.5	20.	22.56	35.00	24.08	385.2	0.077
50.	22.53	35.00			24.09	385.4	30.	22.56	35.00	24.08	385.5	0.116
74.	22.24	35.16			24.29	366.9	50.	22.53	35.00	24.09	385.4	0.194
98.	21.90	35.27			24.47	350.8	75.	22.23	35.17	24.30	366.2	0.289
123.	21.20	35.25			24.65	334.7	100.	21.87	35.27	24.48	349.7	0.379
149.	19.63	35.11			24.96	305.6	150.	19.58	35.10	24.97	304.8	0.544
173.	18.42	34.93			25.13	289.9	200.	17.28	34.77	25.29	275.3	0.690
198.	17.39	34.79			25.28	276.6	250.	14.11	34.40	25.72	235.4	0.819
222.	15.90	34.58			25.47	259.1	300.	11.71	34.20	26.05	204.4	0.930
248.	14.24	34.41			25.70	237.0	400.	8.46	34.11	26.53	158.9	1.113
272.	12.80	34.27			25.89	219.3	500.	6.67	34.11	26.79	134.2	1.261
297.	11.83	34.21			26.03	206.1	600.	5.53	34.23	27.02	112.0	1.385
397.	8.53	34.11			26.52	159.8	700.	5.01	34.33	27.17	98.5	1.491
496.	6.73	34.11			26.78	135.2	800.	4.75	34.42	27.27	89.8	1.587
595.	5.56	34.22			27.01	112.8	1000.	4.07	34.50	27.40	77.7	1.756
794.	4.77	34.42			27.26	90.2	1200.	3.53	34.54	27.49	69.8	1.905
994.	4.09	34.50			27.40	77.9						
1192.	3.56	34.53			27.48	71.0						
1493.	2.96	34.58			27.58	62.2						

ΔFROM BT DATA

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Created in 1849 the Department of the Interior--a department of conservation--is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States--now and in the future.



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DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
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